

Lower Savannah  
Area  
Base Labor Market  
Analysis



South Carolina  
Department of  
Commerce  
Labor Market Information



November 2008



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## EXECUTIVE SUMMARY

### Population

*The Lower Savannah area's population growth has been slower than the state's.*

Future population growth is expected to continue to be slower than the state rate.

*The Lower Savannah area attracts workers predominantly from within its borders.*

Over half live in Aiken and Orangeburg counties.

### Income

*Per capita income growth has been similar to the state and national rates.*

The Lower Savannah area's per capita income remains below the national and state levels.

The Lower Savannah area's average wages are higher than those of the state for the architecture and engineering; life, physical and social science; protective service; office and administrative support; installation, maintenance and repair; production; and transportation and material moving occupational groups.

### Education

*The number of degrees awarded by area post-secondary institutions has increased.*

The greatest increase has been in the area of healthcare.

### Occupations

*The following occupational groups are expected to have faster growth in the Lower Savannah area than in the state:*

Computer and mathematical science; life, physical and social science; legal; arts, design, entertainment, sports and media; and personal care and service.

*Requirements for the Lower Savannah area's workers are expected to grow in the following levels of education and experience:*

Work experience in a related field, postsecondary vocational award, bachelor's degree, and master's degree or higher.

### Industry

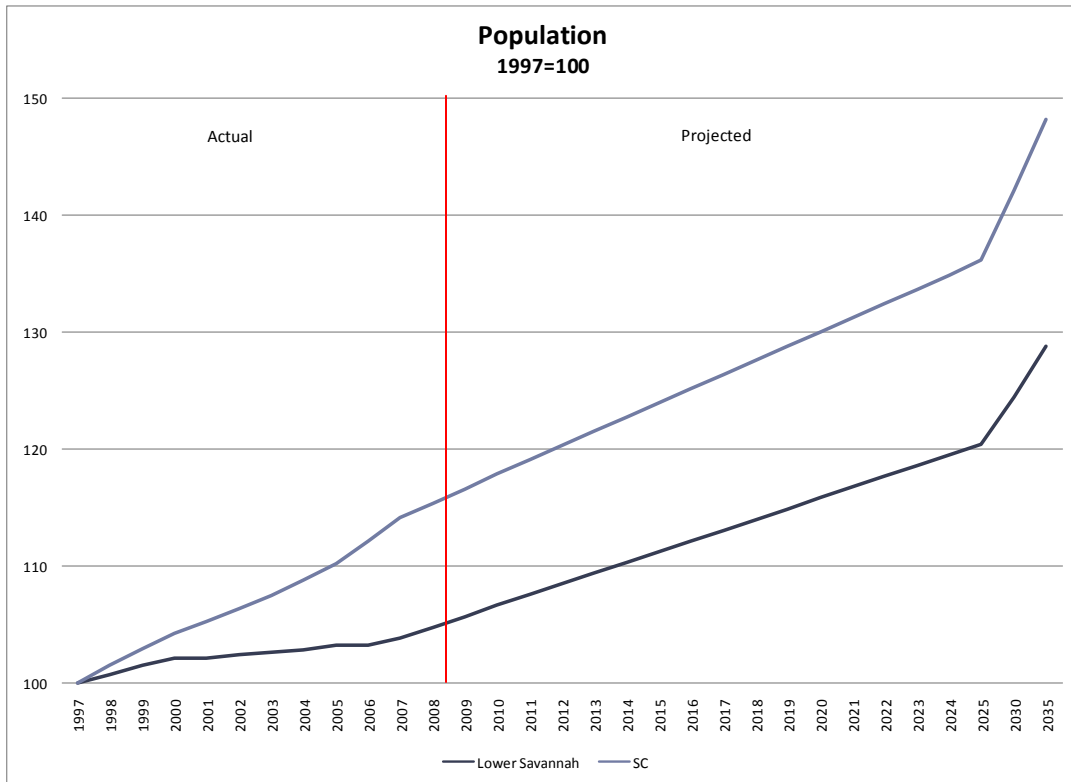
*Sectors rated as having potential in various parts of the Lower Savannah area are as follows:*

Forestry and logging, building construction, specialty trade contractors, food manufacturing, plastics and rubber products manufacturing, nonmetallic mineral product manufacturing, fabricated metal product manufacturing, wholesale, warehousing, truck transportation, professional and technical services, and ambulatory health care services.

## POPULATION

### Growth

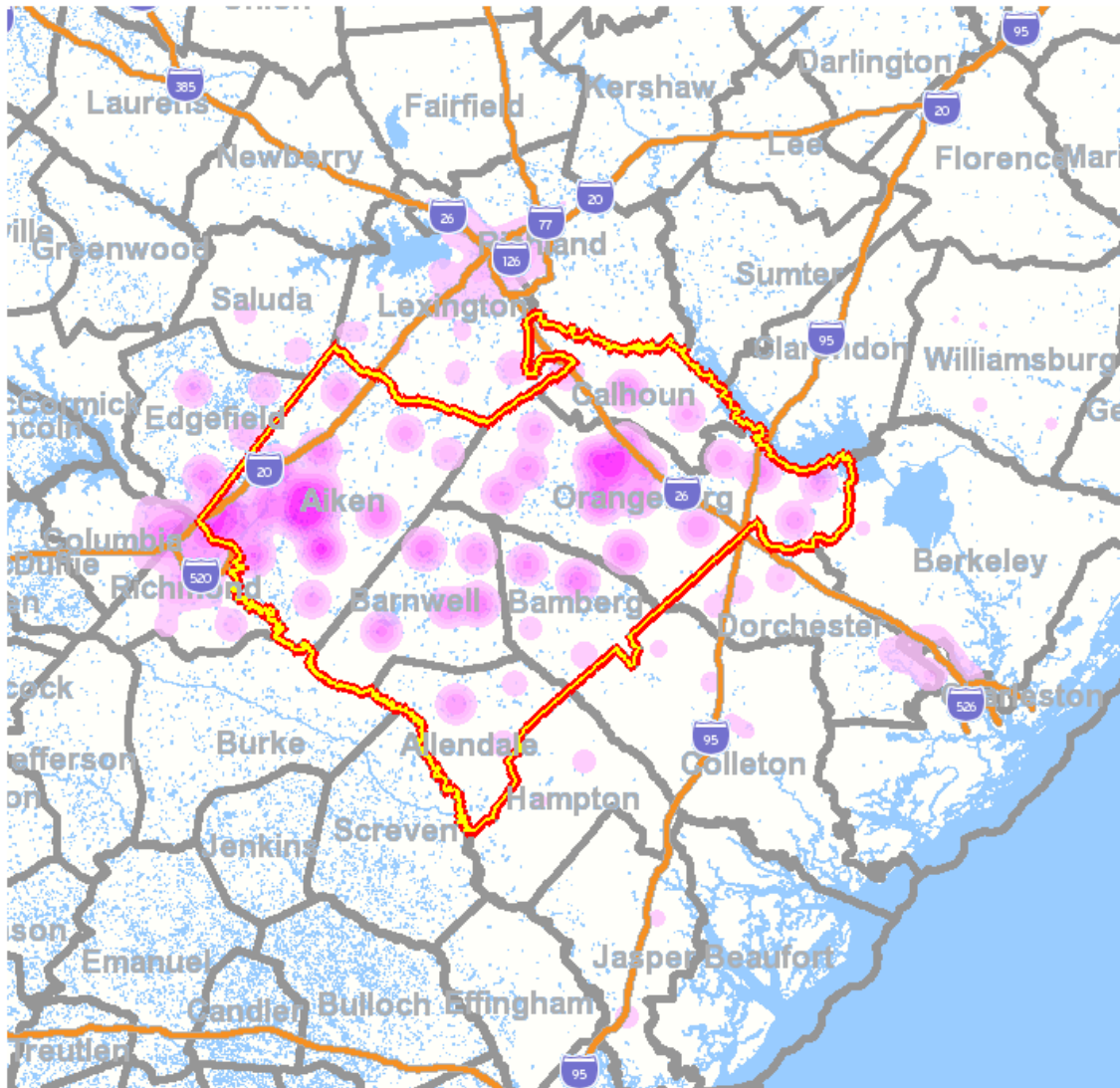
The Lower Savannah area's 2007 population was 307,945. The area population has grown by 3.9% since 1997, compared to 14.2% for South Carolina. Future population growth is expected to continue to be slower than state levels.



Source: U.S. Census Bureau (estimates) and SC Budget & Control Board/Office of Research and Statistics (projections).

## LABORSHED

The map below shows where Lower Savannah area workers come from (in 2006, latest available data). The Lower Savannah area draws over half of its workers from Aiken and Orangeburg counties.



Source: U.S. Census Bureau, Local Employment Dynamics.

## Characteristics of Workers

### Age of Workers:

30 or younger	22.1%
31 to 54	59.9%
55 or older	18.0%

### Earnings of Workers:

\$1,200 per month or less	25.4%
\$1,201 to \$3,400 per month	41.8%
More than \$3,400 per month	32.8%

**States Where Workers Live:**

South Carolina	90.0%
Georgia	9.5%
All other locations	0.5%

**Counties Where Workers Live:**

Aiken	33.2%
Orangeburg	22.7%
Barnwell	6.3%
Richmond (Georgia)	5.0%
Columbia (Georgia)	3.4%
Lexington	3.4%
Bamberg	3.0%
Richland	2.8%
Edgefield	2.7%
Calhoun	2.3%
All Other Locations	15.1%

**Cities Where Workers Live:**

Aiken, South Carolina	7.5%
Augusta-Richmond County (balance), Georgia	4.9%
North Augusta, South Carolina	3.5%
Orangeburg, South Carolina	3.0%
Martinez, Georgia	1.8%
Barnwell, South Carolina	1.4%
Brookdale, South Carolina	1.2%
Belvedere, South Carolina	1.0%
Williston, South Carolina	0.9%
Evans, Georgia	0.9%
All Other Locations	73.9%

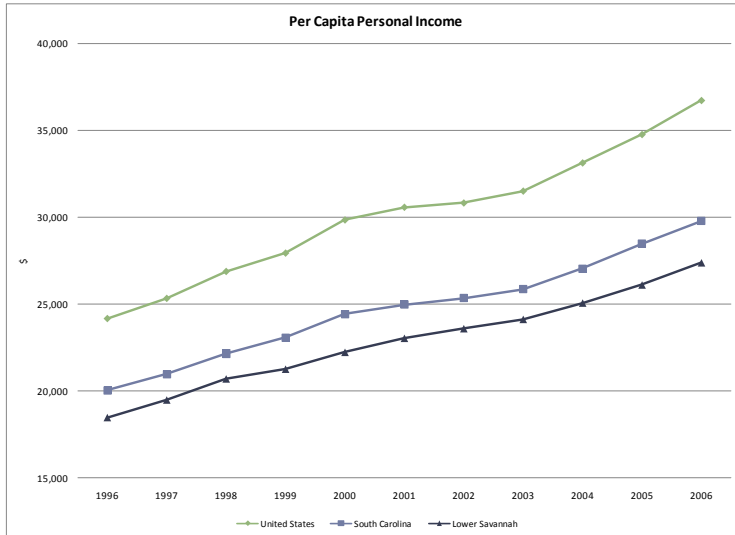
*Source: U.S. Census Bureau, Local Employment Dynamics.*



## INCOME

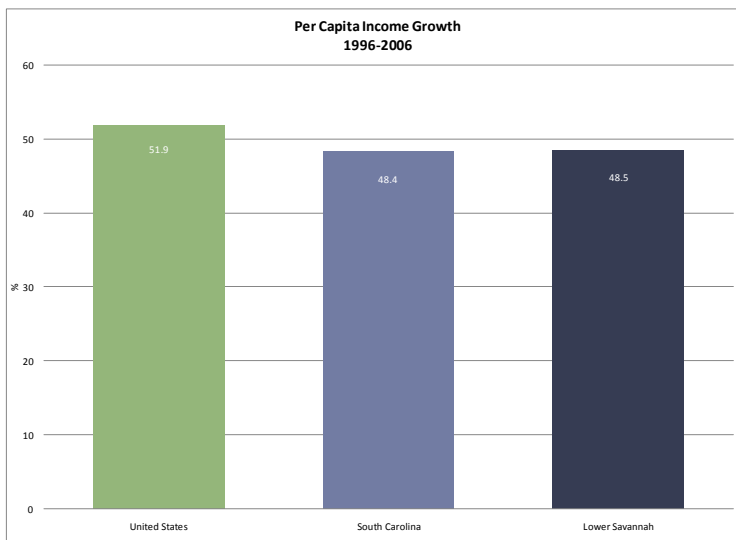
### Per Capita Income

The Lower Savannah area's per capita income remained below the state and national levels from 1996 to 2006.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

The Lower Savannah area's per capita income growth was slightly above South Carolina's and below the United States'.



Source: U.S. Department of Commerce, Bureau of Economic Analysis.

## Wages by Industry

The Lower Savannah area's average wages are above those of South Carolina (\$705 vs. \$680 in 2007). Average wages were up 12% in the Lower Savannah area over the past five years, compared to 18% for the state. All major sectors had growth over the past five years.

Industry	NAICS Code	2007 Average Weekly Wage (\$)	2002 Average Weekly Wage (\$)	% Change
Total, Private and Government		705	629	12
Construction	23	851	775	10
Manufacturing	31-33	832	684	22
Retail Trade	44-45	392	354	11
Transportation and Warehousing	48-49	670	565	19
Information	51	707	554	28
Finance and Insurance	52	814	635	28
Real Estate and Rental and Leasing	53	469	384	22
Administration & Support & Waste Management & Remediation Services	56	1,184	1,044	13
Arts, Entertainment, and Recreation	71	353	300	18
Accommodation and Food Services	72	211	181	17
Other Services (Except Public Administration)	81	386	312	24
Federal Government		1,248	1,221	2
State Government		697	617	13
Local Government		647	564	15

Source: U.S. Department of Labor, Bureau of Labor Statistics, Quarterly Census of Employment and Wages.

## Wages by Occupation

Average wages in the Lower Savannah area are higher than South Carolina's in the following major occupational groups:

- Architecture and engineering
- Life, physical and social science
- Protective service
- Office and administrative support
- Installation, maintenance and repair
- Production
- Transportation and material moving

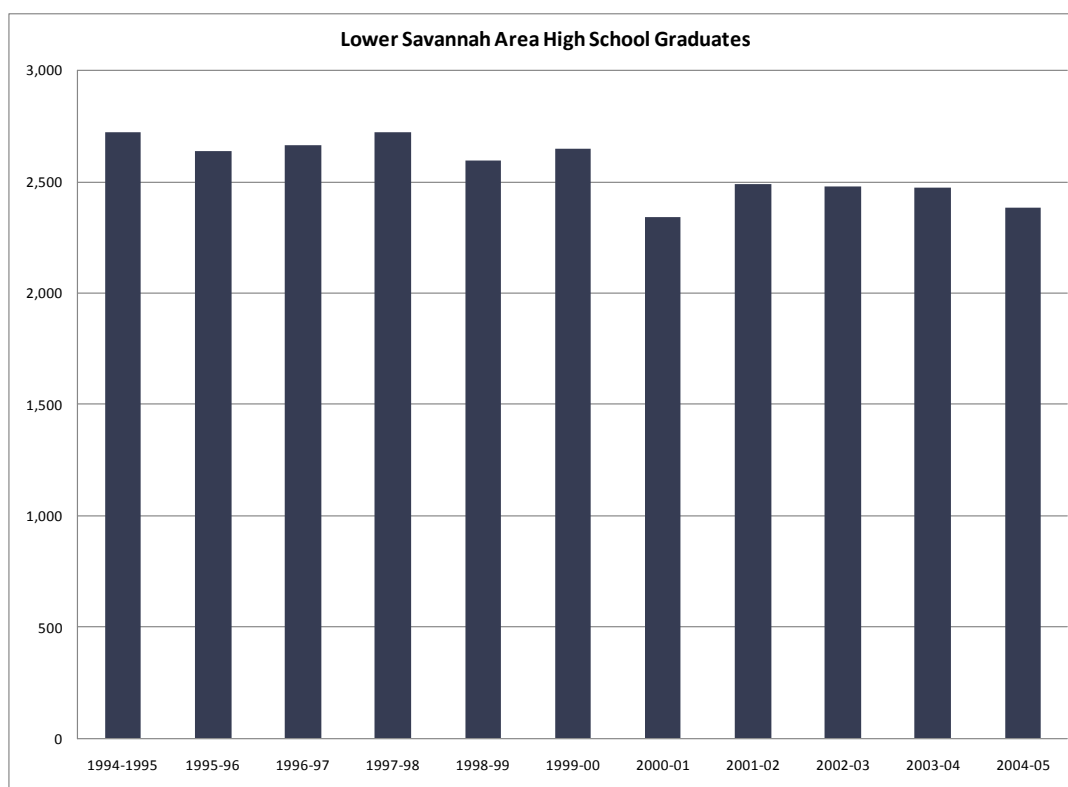
Occupation	2007 Lower Savannah Area Median Hourly Wage (\$)	2007 SC Median Hourly Wage (\$)
Management occupations	23.46	28.78
Business and financial operations occupations	20.02	20.28
Computer and mathematical science occupations	23.88	26.20
Architecture and engineering occupations	34.20	30.22
Life, physical and social science occupations	29.18	22.76
Community and social services occupations	12.06	13.18
Legal occupations	23.16	30.68
Education, training and library occupations	22.47	24.42
Arts, design, entertainment, sports and media occupations	10.39	12.66
Healthcare practitioners and technical occupations	24.61	30.64
Healthcare support occupations	8.44	10.55
Protective service occupations	14.49	13.87
Food preparation and serving related occupations	7.44	7.90
Building and grounds cleaning and maintenance occupations	8.36	8.42
Personal care and service occupations	7.32	8.39
Sales and related occupations	9.84	13.48
Office and administrative support occupations	14.53	13.22
Farming, fishing, and forestry occupations	11.42	13.07
Construction and extraction occupations	15.39	16.51
Installation, maintenance and repair occupations	19.00	16.88
Production occupations	16.04	15.21
Transportation and material moving occupations	14.66	12.94

Source: Economic Modeling Specialists, Inc.

## EDUCATION

### High School Graduates

From 1995 to 2005 (latest data available), the number of Lower Savannah area students receiving high school diplomas decreased by 338—or 12%. In South Carolina, the number of high school diplomas increased 9% from 1995 to 2005. A total of 2,381 people received high school diplomas in the Lower Savannah area in 2005. The Lower Savannah area had 240 fewer 12<sup>th</sup> grade students in 2004-05 than in 1994-95. Also, the number of students not passing the exit exam who received a certificate of completion instead of a diploma increased by 99 (to 231) over the 1995-2005 period.



Source: National Center for Education Statistics.

## Higher Education Graduates

Over 1,000 more students graduated from higher educational institutions in the Lower Savannah area in 2006 than in 1996, an increase of 33%. The greatest numerical increase was in the healthcare field.

Program	1996	2006	Change	% Change
Health professions and related clinical sciences	744	1,143	399	54
Liberal arts and sciences, general studies and humanities	202	330	128	63
Mechanic and repair technologies/technicians	206	320	114	55
Computer and information sciences and support services	131	212	81	62
Family and consumer sciences/human sciences	67	147	80	119
Business, management, marketing, and related support services	586	650	64	11
Multi/interdisciplinary studies	42	102	60	143
Biological and biomedical sciences	58	116	58	100
Engineering technologies/technicians	129	181	52	40
Communication, journalism, and related programs	1	47	46	4,600
Parks, recreation, leisure, and fitness studies		44	44	
Psychology	46	83	37	80
Legal professions and studies	78	109	31	40
Visual and performing arts	12	42	30	250
Theology and religious vocations	4	31	27	675
Philosophy and religious studies	1	3	2	200
Engineering		1	1	
Social sciences and history	97	98	1	1
Physical sciences	19	19	0	0
Public administration and social service professions	93	92	-1	-1
Science technologies/technicians	6	5	-1	-17
English language and literature/letters	49	45	-4	-8
Natural resources and conservation	5	0	-5	-100
Agriculture, agriculture operations, and related sciences	16	4	-12	-75
Mathematics and statistics	39	25	-14	-36
Construction trades	31	12	-19	-61
Precision production	66	45	-21	-32
Security and protective services	161	136	-25	-16
Education	350	246	-104	-30
TOTAL	3,240	4,305	1,065	33

Source: National Center for Education Statistics (Integrated Post Secondary Education System).

Data for these schools: Aiken Technical College, Claflin University, Midlands Technical College, Orangeburg-Calhoun Technical College, South Carolina State University, Southern Methodist College, and USC-Aiken.

## OCCUPATIONS

### Occupational Projections

The following occupational groups are projected to grow faster in the Lower Savannah area than in the state:

- Computer and mathematical science
- Life, physical and social science
- Legal
- Arts, design, entertainment, sports and media
- Personal care and service

See **Appendix A** for detailed occupational information.

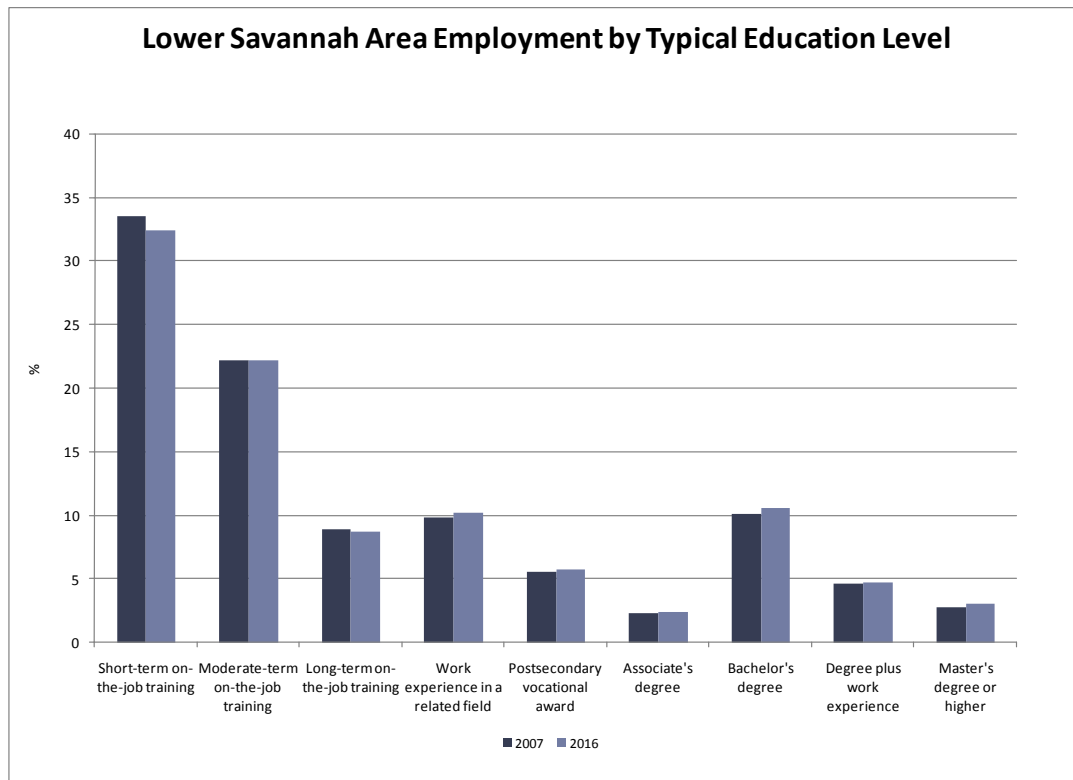
Occupation	2007-2016 Lower Savannah Area Projected Growth (%)	2007-2016 SC Projected Growth (%)
Management occupations	13	17
Business and financial operations occupations	22	22
Computer and mathematical science occupations	26	23
Architecture and engineering occupations	9	15
Life, physical and social science occupations	18	15
Community and social services occupations	8	15
Legal occupations	25	21
Education, training, and library occupations	8	16
Arts, design, entertainment, sports and media occupations	22	17
Healthcare practitioners and technical occupations	14	24
Healthcare support occupations	14	25
Protective service occupations	-1	18
Food preparation and serving related occupations	6	13
Building and grounds cleaning and maintenance occupations	16	23
Personal care and service occupations	9	7
Sales and related occupations	14	19
Office and administrative support occupations	7	13
Farming, fishing, and forestry occupations	12	16
Construction and extraction occupations	7	19
Installation, maintenance and repair occupations	11	17
Production occupations	4	10
Transportation and material moving occupations	7	11

Source: Economic Modeling Specialists, Inc.

## Occupational Education Requirements

Occupational growth trends show that education and training requirements are generally increasing. This is reflected in the projected growth of occupations such as computer, science and legal professionals in the Lower Savannah area. Based on employment projections, the Lower Savannah area is expected to see growth in requirements for the following levels of education and experience:

- Work experience in a related field
- Postsecondary vocational award
- Bachelor's degree
- Master's degree or higher



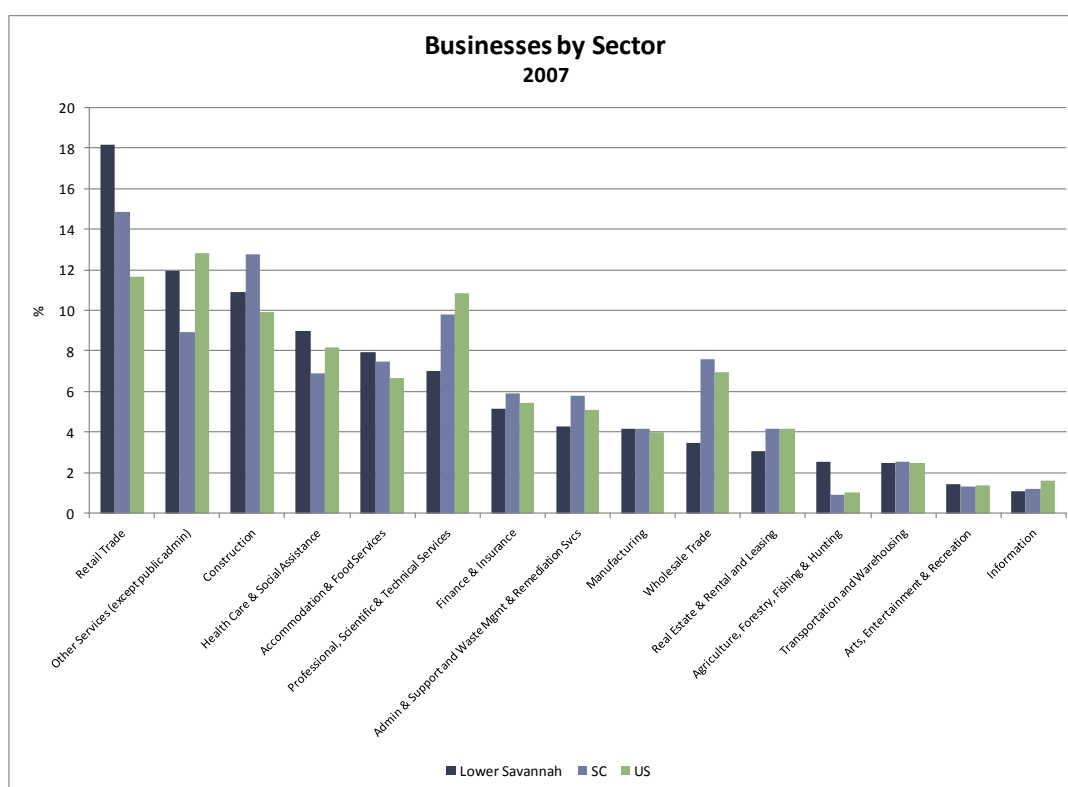
Source: Economic Modeling Specialists, Inc

## INDUSTRY

### Businesses by Sector

The Lower Savannah area had higher percentages of businesses than South Carolina or the nation in the following sectors:

- Retail trade
- Health care and social assistance
- Accommodation and food services
- Agriculture and forestry
- Arts, entertainment and recreation



Source: U.S. Department of Labor, Bureau of Labor Statistics.



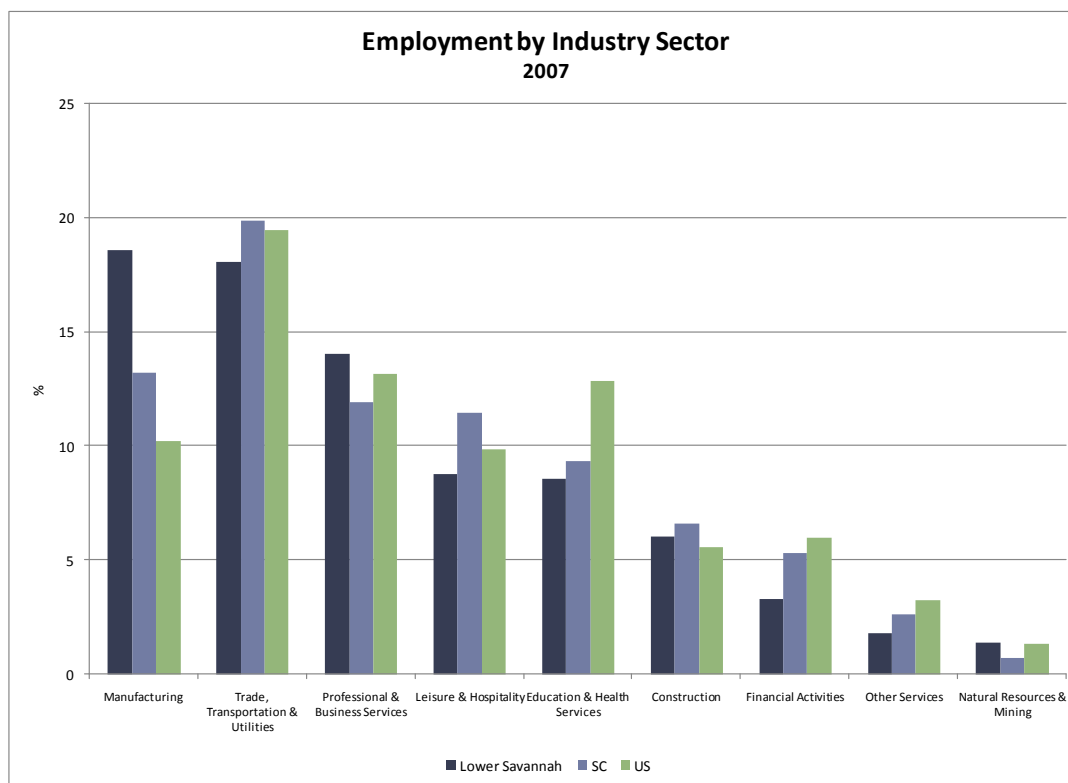
## Growth in Number of Businesses

The number of private businesses in the Lower Savannah area fell 8% from 2002 to 2007, compared to a 2% drop for the state.

Because the amount of detailed data varies by county, information for three-digit NAICS code sectors for the Lower Savannah area as a whole is unavailable. Please see county reports for information on growth by detailed industry sectors.

## Employment by Sector

Compared to South Carolina and the United States, the Lower Savannah area's employment is more concentrated in manufacturing and professional and business services.



Source: U.S. Department of Labor, Bureau of Labor Statistics.

# Industry Analysis

## Screening Criteria

For each county in the Lower Savannah area, industry sectors with available data were rated on six factors:

- |                                    |                                 |
|------------------------------------|---------------------------------|
| • 2002-2007 employment growth      | Competitive effect <sup>1</sup> |
| • 2002-2007 employment growth rate | Average annual wage             |
| • Location quotient <sup>2</sup>   | Projected growth                |

Using those factors, sectors were awarded “stars” based on meeting the following criteria:

- 2002-2007 employment growth (Did the sector add a significant number of jobs?)
- 2002-2007 employment growth rate (Did the sector add jobs at a greater rate than overall job growth?)
- Location quotient of at least 1.25 (Does the sector have a significant concentration in the county?)
- Competitive effect greater than 0 (Did the sector add jobs beyond national growth overall and in the sector?)
- Average annual wage greater than the overall county average (Does the sector pay wages greater than average for the county?)
- Average or above average projected growth (Is the sector expected to add jobs?)

## Industries of Note

Based on the analyses for each county in the Lower Savannah area, the following sectors of note were identified (and the counties for which they were significant):

- Forestry and logging (Bamberg, Barnwell)
- Building construction (Aiken)
- Specialty trade contractors (Calhoun)
- Food manufacturing (Orangeburg)
- Plastics and rubber products manufacturing (Aiken)
- Nonmetallic mineral product manufacturing (Aiken, Orangeburg)
- Fabricated metal product manufacturing (Aiken, Bamberg, Orangeburg)
- Wholesale (Orangeburg)
- Warehousing (Orangeburg)
- Truck transportation (Orangeburg)
- Professional and technical services (Aiken)
- Ambulatory health care services (Allendale, Orangeburg)

See the reports for each county for information about the respective industries of note as well as other sectors in the county.

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<sup>1</sup> *Competitive Effect: based on shift-share analysis; represents the change in employment in the sector in the county after accounting for overall US employment growth and growth/decline in the sector in the US.*

<sup>2</sup> *Location Quotient: percentage of employment in the sector in the county divided by the percentage of employment in that sector in the US; gives an indication of how concentrated employment in the sector is in the county compared to the US; based on 2007 data.*

## MOVING FORWARD

The South Carolina Department of Commerce appreciates the opportunity to provide this base analysis of the Lower Savannah area's labor market. We hope that it will help in advancing the progress of the Lower Savannah area's economic development.

### What's been done so far?

This analysis identifies the region's assets—both current and future—at a macro level. Labor Market Information (LMI) at the S.C. Department of Commerce developed a Base Labor Analysis report providing an overview of the region's population, industries, occupations, and educational assets. Additionally, these findings were benchmarked against the state and the nation.

### What's next?

Because local knowledge is required to interpret and apply the findings appropriately, the Lower Savannah Base Labor Analysis should be used with local stakeholders to identify and define key, targeted industry clusters. Some items to consider when defining these clusters may include the following.

**1. *What is the Lower Savannah area's economic base?***

In order for an economy to grow, it must have a base (export) sector that generates wealth from beyond its borders. Industries in the economic base (manufacturing, scientific and technology services, warehouse and distribution, financial services, regional healthcare, etc.) typically provide occupations with higher pay and benefits as well as better human capital development and promotion opportunities. A successful economic base stimulates the development of the non-base sector (housing, schools, retail, restaurants, personal services, etc.). It also propels the local tax base which, in turn, provides support to community services.

**2. *What are strategies to assist low-wage citizens in non-base economy jobs?***

Although the economic base is the driver for long-term growth in a region, implementable strategies for developing job opportunities for low-skilled individuals is a priority for community economic well-being. This need must also be kept in mind when defining target industry clusters.

**3. *What other factors are vital to the Lower Savannah area and its communities?***

Over and above pure economic considerations, what is important to the citizens of the Lower Savannah area? How does Lower Savannah want to be perceived? What quality of life issues affect Lower Savannah? These questions may impact the types of industries desired for the area.

## How Labor Market Information at the S.C. Department of Commerce can help.

Once local stakeholders have identified key industry clusters vital to the future economic development of the region, LMI can provide more in-depth analysis of each of these industries, their occupations, business establishments, and educational requirements.

### **1. Detailed Industry Analysis**

For each identified industry, LMI can develop a detailed analysis of each sector, including employment, projected growth, staffing patterns, location quotients, and employers. Additionally, the analysis will examine the largest, fastest growing, and declining sectors within the industry cluster.

### **2. Detailed Occupational Analysis**

At this point, the occupations—classified by SOC codes—that make up each of the identified industry clusters can be analyzed in detail. This analysis will include employment, average earnings, educational requirements, projected growth, and completers from available local training programs. It will culminate in identifying gaps between the number of occupations required to sustain and advance industry growth and the number of skilled workers (as identified by educational requirements and program completers) available to fulfill these positions.

### **3. Identification of Implementable Recommendations**

LMI will utilize the findings of the analyses to develop a set of implementable recommendations. These may include recommendations to align community college programs with economic development goals along with others. Finally, local knowledge will once again be called upon to review the findings and develop an action plan for the implementation of feasible solutions.

## Appendix A: Occupational Projections for Lower Savannah Area

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-2011	Advertising and promotions managers	29	31	2	7	0.60	24.26	Degree plus work experience
11-2021	Marketing managers	92	109	17	18	0.50	30.92	Degree plus work experience
11-2022	Sales managers	206	237	31	15	0.64	46.52	Degree plus work experience
11-2031	Public relations managers	35	42	7	20	0.70	26.23	Degree plus work experience
11-3011	Administrative services managers	184	202	18	10	0.84	39.83	Degree plus work experience
11-3021	Computer and information systems managers	96	116	20	21	0.38	47.60	Degree plus work experience
11-3031	Financial managers	353	400	47	13	0.59	34.38	Degree plus work experience
11-3041	Compensation and benefits managers	31	35	4	13	0.74	32.19	Degree plus work experience
11-3042	Training and development managers	31	36	5	16	1.04	32.04	Degree plus work experience
11-3049	Human resources managers, all other	32	37	5	16	0.57	33.37	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-3051	Industrial production managers	258	280	22	9	1.89	56.72	Work experience in a related field
11-3061	Purchasing managers	35	36	1	3	0.60	43.57	Degree plus work experience
11-3071	Transportation, storage, and distribution managers	89	104	15	17	0.96	37.36	Work experience in a related field
11-9011	Farm, ranch, and other agricultural managers	761	835	74	10	1.68	12.94	Degree plus work experience
11-9012	Farmers and ranchers	2,698	2,733	35	1	1.79	6.56	Long-term on-the-job training
11-9021	Construction managers	929	1,075	146	16	1.41	18.45	Bachelor's degree
11-9031	Education administrators, preschool and child care center/program	83	88	5	6	0.70	11.48	Degree plus work experience
11-9032	Education administrators, elementary and secondary school	308	319	11	4	1.17	40.50	Degree plus work experience
11-9033	Education administrators, postsecondary	155	177	22	14	0.95	32.92	Degree plus work experience
11-9039	Education administrators, all other	64	70	6	9	0.71	17.82	Degree plus work experience
11-9041	Engineering managers	211	204	-7	-3	1.28	69.26	Degree plus work experience
11-9051	Food service managers	460	630	170	37	1.16	9.68	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
11-9061	Funeral directors	47	44	-3	-6	1.80	18.91	Associate's degree
11-9071	Gaming managers	18	20	2	11	1.52	19.96	Work experience in a related field
11-9081	Lodging managers	193	276	83	43	1.50	13.79	Work experience in a related field
11-9111	Medical and health services managers	269	325	56	21	0.99	21.62	Degree plus work experience
11-9121	Natural sciences managers	10	11	1	10	--	--	Degree plus work experience
11-9131	Postmasters and mail superintendents	37	35	-2	-5	1.63	27.56	Work experience in a related field
11-9141	Property, real estate, and community association managers	706	990	284	40	0.69	7.71	Bachelor's degree
11-9151	Social and community service managers	103	112	9	9	0.78	14.20	Bachelor's degree
11-9199	Managers, all other	1,220	1,520	300	25	0.85	11.10	Work experience in a related field
11-1011	Chief executives	1,045	1,233	188	18	1.06	29.00	Degree plus work experience
11-1021	General and operations managers	1,997	2,036	39	2	1.27	47.77	Degree plus work experience
11-1031	Legislators	105	105	0	0	1.95	8.76	Degree plus work experience

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1011	Agents and business managers of artists, performers, and athletes	22	30	8	36	0.60	12.87	Degree plus work experience
13-1021	Purchasing agents and buyers, farm products	11	10	-1	-9	--	--	Work experience in a related field
13-1022	Wholesale and retail buyers, except farm products	73	81	8	11	0.51	16.26	Work experience in a related field
13-1023	Purchasing agents, except wholesale, retail, and farm products	219	225	6	3	0.85	30.73	Work experience in a related field
13-1031	Claims adjusters, examiners, and investigators	66	71	5	8	0.25	19.42	Long-term on-the-job training
13-1032	Insurance appraisers, auto damage	18	21	3	17	0.70	12.57	Long-term on-the-job training
13-1041	Compliance officers, except agriculture, construction, health and safety, and transportation	109	120	11	10	0.53	38.33	Long-term on-the-job training
13-1051	Cost estimators	195	204	9	5	0.92	32.14	Work experience in a related field
13-1061	Emergency management specialists	20	22	2	10	1.53	18.62	Work experience in a related field
13-1071	Employment, recruitment, and placement specialists	83	98	15	18	0.46	16.92	Bachelor's degree
13-1072	Compensation, benefits, and job analysis specialists	39	47	8	21	0.36	24.02	Bachelor's degree
13-1073	Training and development specialists	152	179	27	18	0.79	23.48	Bachelor's degree
13-1079	Human resources, training, and labor relations specialists, all other	74	87	13	18	0.36	34.41	Bachelor's degree
13-1081	Logisticians	35	44	9	26	0.42	36.76	Bachelor's degree



SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
13-1111	Management analysts	451	619	168	37	0.52	19.22	Degree plus work experience
13-1121	Meeting and convention planners	64	86	22	34	0.79	8.83	Bachelor's degree
13-1199	Business operation specialists, all other	225	277	52	23	0.24	23.74	Bachelor's degree
13-2011	Accountants and auditors	995	1,263	268	27	0.72	19.90	Bachelor's degree
13-2021	Appraisers and assessors of real estate	291	397	106	36	0.77	8.48	Postsecondary vocational award
13-2031	Budget analysts	15	16	1	7	0.26	26.86	Bachelor's degree
13-2041	Credit analysts	27	24	-3	-11	0.44	29.84	Bachelor's degree
13-2051	Financial analysts	94	132	38	40	0.29	12.51	Bachelor's degree
13-2052	Personal financial advisors	362	498	136	38	0.57	9.74	Bachelor's degree
13-2053	Insurance underwriters	19	18	-1	-5	0.20	17.70	Bachelor's degree
13-2071	Loan counselors	59	53	-6	-10	1.26	17.76	Bachelor's degree
13-2072	Loan officers	185	159	-26	-14	0.55	25.43	Bachelor's degree
13-2081	Tax examiners, collectors, and revenue agents	12	12	0	0	0.21	16.33	Bachelor's degree
13-2082	Tax preparers	70	88	18	26	0.67	7.35	Moderate-term on-the-job training
13-2099	Financial specialists, all other	45	40	-5	-11	0.31	12.67	Bachelor's degree
15-1011	Computer and information scientists, research	23	31	8	35	0.39	14.55	Doctoral degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
15-1021	Computer programmers	180	194	14	8	0.43	24.08	Bachelor's degree
15-1031	Computer software engineers, applications	93	140	47	51	0.19	31.13	Bachelor's degree
15-1032	Computer software engineers, systems software	75	102	27	36	0.21	33.37	Bachelor's degree
15-1041	Computer support specialists	313	360	47	15	0.62	15.52	Associate's degree
15-1051	Computer systems analysts	149	198	49	33	0.33	29.61	Bachelor's degree
15-1061	Database administrators	32	43	11	34	0.29	21.30	Bachelor's degree
15-1071	Network and computer systems administrators	102	132	30	29	0.35	30.62	Bachelor's degree
15-1081	Network systems and data communications analysts	101	148	47	47	0.39	24.27	Bachelor's degree
15-1099	Computer specialists, all other	69	83	14	20	0.35	24.31	Associate's degree
15-2031	Operations research analysts	21	26	5	24	0.38	20.55	Master's degree
17-1011	Architects, except landscape and naval	100	123	23	23	0.73	21.14	Bachelor's degree
17-1012	Landscape architects	71	95	24	34	1.14	13.94	Bachelor's degree
17-1021	Cartographers and photogrammetrists	16	21	5	31	1.06	21.73	Bachelor's degree
17-1022	Surveyors	68	79	11	16	1.25	19.86	Bachelor's degree
17-2021	Agricultural engineers	12	15	3	25	1.11	27.51	Bachelor's degree
17-2031	Biomedical engineers	14	17	3	21	0.67	29.15	Bachelor's degree
17-2041	Chemical engineers	44	50	6	14	1.64	40.22	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-2051	Civil engineers	383	360	-23	-6	1.47	45.85	Bachelor's degree
17-2061	Computer hardware engineers	20	24	4	20	0.28	21.08	Bachelor's degree
17-2071	Electrical engineers	138	132	-6	-4	1.02	34.81	Bachelor's degree
17-2072	Electronics engineers, except computer	30	37	7	23	0.24	32.33	Bachelor's degree
17-2081	Environmental engineers	99	116	17	17	2.11	35.30	Bachelor's degree
17-2111	Health and safety engineers, except mining safety engineers and inspectors	339	384	45	13	14.30	43.77	Bachelor's degree
17-2112	Industrial engineers	293	366	73	25	1.66	38.21	Bachelor's degree
17-2131	Materials engineers	22	23	1	5	1.09	23.30	Bachelor's degree
17-2141	Mechanical engineers	169	167	-2	-1	0.85	38.66	Bachelor's degree
17-2151	Mining and geological engineers, including mining safety engineers	19	15	-4	-21	1.41	37.87	Bachelor's degree
17-2161	Nuclear engineers	87	97	10	11	3.46	29.48	Bachelor's degree
17-2199	Engineers, all other	73	79	6	8	0.46	52.10	Bachelor's degree
17-3011	Architectural and civil drafters	49	49	0	0	0.46	24.99	Postsecondary vocational award
17-3012	Electrical and electronics drafters	33	33	0	0	0.93	25.51	Postsecondary vocational award
17-3013	Mechanical drafters	60	60	0	0	0.88	25.05	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
17-3019	Drafters, all other	29	30	1	3	1.07	32.48	Postsecondary vocational award
17-3022	Civil engineering technicians	52	47	-5	-10	0.67	31.46	Associate's degree
17-3023	Electrical and electronic engineering technicians	120	118	-2	-2	0.83	26.04	Associate's degree
17-3024	Electro-mechanical technicians	12	13	1	8	0.80	23.60	Associate's degree
17-3025	Environmental engineering technicians	77	91	14	18	3.64	28.44	Associate's degree
17-3026	Industrial engineering technicians	119	130	11	9	1.82	25.13	Associate's degree
17-3027	Mechanical engineering technicians	32	30	-2	-6	0.77	24.25	Associate's degree
17-3029	Engineering technicians, except drafters, all other	24	24	0	0	0.35	32.20	Associate's degree
17-3031	Surveying and mapping technicians	112	119	7	6	1.50	14.33	Moderate-term on-the-job training
19-1031	Conservation scientists	22	22	0	0	1.05	21.49	Bachelor's degree
19-1032	Foresters	45	45	0	0	3.01	27.94	Bachelor's degree
19-2031	Chemists	164	193	29	18	2.33	53.85	Bachelor's degree
19-2032	Materials scientists	16	19	3	19	1.60	53.84	Bachelor's degree
19-2041	Environmental scientists and specialists, including health	28	36	8	29	0.35	29.31	Master's degree
19-2042	Geoscientists, except hydrologists and geographers	31	41	10	32	0.76	22.90	Master's degree
19-2043	Hydrologists	15	18	3	20	0.75	35.98	Master's degree
19-2099	Physical scientists, all other	11	13	2	18	0.38	33.90	Bachelor's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
19-3021	Market research analysts	83	105	22	27	0.35	15.73	Bachelor's degree
19-3022	Survey researchers	34	41	7	21	0.59	11.38	Bachelor's degree
19-3031	Clinical, counseling, and school psychologists	82	96	14	17	0.54	19.24	Doctoral degree
19-3032	Industrial-organizational psychologists	49	69	20	41	0.71	18.16	Master's degree
19-3039	Psychologists, all other	47	60	13	28	0.62	16.78	Master's degree
19-3051	Urban and regional planners	13	15	2	15	0.43	28.05	Master's degree
19-4011	Agricultural and food science technicians	15	17	2	13	0.72	15.96	Associate's degree
19-4021	Biological technicians	14	17	3	21	0.23	15.68	Associate's degree
19-4031	Chemical technicians	91	103	12	13	1.63	32.12	Associate's degree
19-4041	Geological and petroleum technicians	18	17	-1	-6	1.47	41.81	Associate's degree
19-4051	Nuclear technicians	34	40	6	18	5.07	20.99	Associate's degree
19-4091	Environmental science and protection technicians, including health	54	69	15	28	1.74	22.84	Associate's degree
19-4093	Forest and conservation technicians	13	13	0	0	0.52	17.71	Associate's degree
21-1011	Substance abuse and behavioral disorder counselors	55	60	5	9	0.65	15.68	Master's degree
21-1012	Educational, vocational, and school counselors	215	235	20	9	0.93	21.41	Master's degree
21-1013	Marriage and family therapists	28	31	3	11	0.77	15.44	Master's degree
21-1014	Mental health counselors	40	43	3	8	0.39	12.95	Master's degree
21-1015	Rehabilitation counselors	117	124	7	6	0.90	10.37	Master's degree
21-1019	Counselors, all other	30	32	2	7	0.73	6.98	Master's degree
21-1021	Child, family, and school social workers	339	364	25	7	1.30	13.20	Bachelor's degree
21-1022	Medical and public health social workers	95	101	6	6	0.81	15.23	Bachelor's degree
21-1023	Mental health and substance abuse social workers	77	83	6	8	0.65	11.95	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
21-1029	Social workers, all other	131	143	12	9	1.88	17.17	Bachelor's degree
21-1091	Health educators	31	35	4	13	0.52	18.23	Master's degree
21-1092	Probation officers and correctional treatment specialists	41	46	5	12	0.52	21.06	Bachelor's degree
21-1093	Social and human service assistants	354	357	3	1	1.15	8.22	Moderate-term on-the-job training
21-1099	Community and social service specialists, all other	47	54	7	15	0.43	11.83	Bachelor's degree
21-2011	Clergy	288	316	28	10	1.22	7.14	Master's degree
21-2021	Directors, religious activities and education	141	155	14	10	1.30	6.84	Bachelor's degree
21-2099	Religious workers, all other	73	80	7	10	1.47	6.81	Bachelor's degree
23-1011	Lawyers	296	389	93	31	0.39	26.36	First professional degree
23-1023	Judges, magistrate judges, and magistrates	57	60	3	5	2.34	26.84	Degree plus work experience
23-2011	Paralegals and legal assistants	56	75	19	34	0.25	18.50	Associate's degree
23-2091	Court reporters	29	34	5	17	0.91	15.96	Postsecondary vocational award
23-2092	Law clerks	27	32	5	19	0.64	14.30	Bachelor's degree
23-2093	Title examiners, abstractors, and searchers	37	45	8	22	0.54	13.08	Moderate-term on-the-job training
23-2099	Legal support workers, all other	21	25	4	19	0.46	13.61	Bachelor's degree
25-1099	Postsecondary teachers	1,151	1,401	250	22	0.82	38.42	Doctoral degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-2011	Preschool teachers, except special education	343	369	26	8	0.74	8.59	Postsecondary vocational award
25-2012	Kindergarten teachers, except special education	236	260	24	10	1.40	24.77	Bachelor's degree
25-2021	Elementary school teachers, except special education	1,743	1,891	148	8	1.21	25.82	Bachelor's degree
25-2022	Middle school teachers, except special and vocational education	667	708	41	6	1.08	25.78	Bachelor's degree
25-2023	Vocational education teachers, middle school	72	77	5	7	1.75	19.73	Degree plus work experience
25-2031	Secondary school teachers, except special and vocational education	1,298	1,306	8	1	1.35	28.18	Bachelor's degree
25-2032	Vocational education teachers, secondary school	129	124	-5	-4	1.32	28.22	Degree plus work experience
25-2041	Special education teachers, preschool, kindergarten, and elementary school	174	195	21	12	0.87	27.83	Bachelor's degree
25-2042	Special education teachers, middle school	74	81	7	9	0.80	27.40	Bachelor's degree
25-2043	Special education teachers, secondary school	146	149	3	2	1.14	29.43	Bachelor's degree
25-3011	Adult literacy, remedial education, and GED teachers and instructors	95	112	17	18	0.72	16.88	Bachelor's degree
25-3021	Self-enrichment education teachers	194	228	34	18	0.78	11.37	Work experience in a related field
25-3099	Teachers and instructors, all other	626	671	45	7	1.11	11.27	Bachelor's degree
25-4011	Archivists	13	14	1	8	1.67	26.43	Master's degree
25-4012	Curators	14	15	1	7	1.19	26.60	Master's degree
25-4013	Museum Technicians and Conservators	11	12	1	9	0.97	22.93	Master's degree
25-4021	Librarians	136	137	1	1	0.97	22.01	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
25-4031	Library technicians	127	136	9	7	1.22	7.80	Postsecondary vocational award
25-9011	Audio-visual collections specialists	24	22	-2	-8	1.20	14.75	Moderate-term on-the-job training
25-9021	Farm and home management advisors	21	23	2	10	0.83	14.06	Bachelor's degree
25-9031	Instructional coordinators	98	116	18	18	0.80	19.96	Master's degree
25-9041	Teacher assistants	1,553	1,595	42	3	1.27	9.54	Short-term on-the-job training
25-9099	Education, training, and library workers, all other	32	34	2	6	0.29	13.97	Bachelor's degree
27-1011	Art directors	74	100	26	35	0.63	8.79	Degree plus work experience
27-1012	Craft artists	67	89	22	33	0.75	6.67	Long-term on-the-job training
27-1013	Fine artists, including painters, sculptors, and illustrators	71	93	22	31	0.75	8.13	Long-term on-the-job training
27-1014	Multi-media artists and animators	74	103	29	39	0.66	8.13	Bachelor's degree
27-1019	Artists and related workers, all other	71	93	22	31	0.77	7.14	Long-term on-the-job training
27-1021	Commercial and industrial designers	78	112	34	44	1.14	18.81	Bachelor's degree
27-1022	Fashion designers	40	52	12	30	0.76	10.41	Associate's degree
27-1023	Floral designers	93	95	2	2	1.06	9.50	Moderate-term on-the-job training
27-1024	Graphic designers	124	172	48	39	0.55	14.76	Bachelor's degree



SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-1025	Interior designers	70	104	34	49	0.83	12.76	Associate's degree
27-1026	Merchandise displayers and window trimmers	63	79	16	25	0.65	9.81	Moderate-term on-the-job training
27-1027	Set and exhibit designers	40	52	12	30	0.88	8.96	Bachelor's degree
27-1029	Designers, all other	41	55	14	34	0.85	9.80	Bachelor's degree
27-2011	Actors	34	46	12	35	0.41	7.31	Long-term on-the-job training
27-2012	Producers and directors	49	63	14	29	0.43	11.11	Degree plus work experience
27-2021	Athletes and sports competitors	30	36	6	20	0.79	10.72	Long-term on-the-job training
27-2022	Coaches and scouts	133	149	16	12	0.75	18.03	Long-term on-the-job training
27-2023	Umpires, referees, and other sports officials	28	34	6	21	0.73	8.17	Long-term on-the-job training
27-2032	Choreographers	14	18	4	29	0.66	12.70	Work experience in a related field
27-2041	Music directors and composers	129	163	34	26	0.84	6.65	Degree plus work experience
27-2042	Musicians and singers	193	236	43	22	0.88	7.20	Long-term on-the-job training
27-2099	Entertainers and performers, sports and related workers, all other	54	65	11	20	0.61	7.23	Long-term on-the-job training
27-3011	Radio and television announcers	31	28	-3	-10	0.67	10.01	Long-term on-the-job training
27-3012	Public address system and other announcers	16	20	4	25	0.73	9.10	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
27-3021	Broadcast news analysts	13	15	2	15	0.77	12.76	Degree plus work experience
27-3022	Reporters and correspondents	27	28	1	4	0.50	12.54	Degree plus work experience
27-3031	Public relations specialists	102	127	25	25	0.42	16.80	Bachelor's degree
27-3041	Editors	74	91	17	23	0.54	11.27	Bachelor's degree
27-3042	Technical writers	42	51	9	21	0.82	32.03	Bachelor's degree
27-3043	Writers and authors	222	297	75	34	0.64	6.90	Bachelor's degree
27-3091	Interpreters and translators	75	77	2	3	0.58	10.13	Long-term on-the-job training
27-3099	Media and communication workers, all other	69	70	1	1	0.57	9.50	Long-term on-the-job training
27-4011	Audio and video equipment technicians	14	17	3	21	0.33	12.91	Long-term on-the-job training
27-4012	Broadcast technicians	24	22	-2	-8	0.67	10.47	Associate's degree
27-4021	Photographers	442	462	20	5	0.67	7.91	Long-term on-the-job training
27-4099	Media and communication equipment workers, all other	20	22	2	10	0.93	26.06	Moderate-term on-the-job training
29-1011	Chiropractors	54	76	22	41	1.01	21.68	First professional degree
29-1021	Dentists, general	84	79	-5	-6	0.99	51.59	First professional degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1022	Oral and maxillofacial surgeons	19	17	-2	-11	1.22	78.51	First professional degree
29-1023	Orthodontists	19	18	-1	-5	1.27	74.40	First professional degree
29-1024	Prosthodontists	19	19	0	0	1.63	59.88	First professional degree
29-1029	Dentists, all other specialists	12	11	-1	-8	0.84	63.07	First professional degree
29-1031	Dietitians and nutritionists	54	59	5	9	0.85	16.99	Bachelor's degree
29-1041	Optometrists	33	43	10	30	0.78	28.47	First professional degree
29-1051	Pharmacists	265	351	86	32	1.17	45.44	First professional degree
29-1069	Physicians and surgeons	491	548	57	12	0.66	52.29	First professional degree
29-1071	Physician assistants	34	37	3	9	0.55	27.29	Bachelor's degree
29-1081	Podiatrists	26	36	10	38	0.77	19.38	First professional degree
29-1111	Registered nurses	1,496	1,640	144	10	0.69	24.37	Associate's degree
29-1121	Audiologists	18	19	1	6	1.06	19.05	First professional degree
29-1122	Occupational therapists	95	106	11	12	1.02	18.66	Master's degree

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-1123	Physical therapists	102	125	23	23	0.59	24.44	Master's degree
29-1124	Radiation therapists	11	12	1	9	0.79	33.57	Associate's degree
29-1125	Recreational therapists	23	22	-1	-4	1.08	10.84	Bachelor's degree
29-1126	Respiratory therapists	60	66	6	10	0.67	21.52	Associate's degree
29-1127	Speech-language pathologists	97	104	7	7	0.82	20.92	Master's degree
29-1129	Therapists, all other	41	49	8	20	0.80	14.30	Bachelor's degree
29-1131	Veterinarians	68	118	50	74	1.09	24.96	First professional degree
29-1199	Health diagnosing and treating practitioners, all other	38	46	8	21	0.48	17.40	Bachelor's degree
29-2011	Medical and clinical laboratory technologists	133	140	7	5	0.92	18.13	Bachelor's degree
29-2012	Medical and clinical laboratory technicians	90	94	4	4	0.69	11.91	Associate's degree
29-2021	Dental hygienists	141	158	17	12	0.94	24.87	Associate's degree
29-2031	Cardiovascular technologists and technicians	37	42	5	14	0.86	18.43	Associate's degree
29-2032	Diagnostic medical sonographers	23	26	3	13	0.55	25.14	Associate's degree
29-2033	Nuclear medicine technologists	18	19	1	6	0.92	31.54	Associate's degree
29-2034	Radiologic technologists and technicians	88	93	5	6	0.50	19.29	Associate's degree
29-2041	Emergency medical technicians and paramedics	263	403	140	53	1.50	14.56	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-2051	Dietetic technicians	27	29	2	7	1.21	12.11	Moderate-term on-the-job training
29-2052	Pharmacy technicians	252	288	36	14	0.95	11.58	Moderate-term on-the-job training
29-2053	Psychiatric technicians	17	15	-2	-12	0.33	10.06	Moderate-term on-the-job training
29-2054	Respiratory therapy technicians	18	17	-1	-6	1.08	16.90	Associate's degree
29-2055	Surgical technologists	56	62	6	11	0.74	14.31	Postsecondary vocational award
29-2056	Veterinary technologists and technicians	66	144	78	118	1.01	12.71	Associate's degree
29-2061	Licensed practical and licensed vocational nurses	827	836	9	1	1.29	14.10	Postsecondary vocational award
29-2071	Medical records and health information technicians	137	147	10	7	0.94	11.81	Associate's degree
29-2081	Opticians, dispensing	58	73	15	26	0.84	10.65	Long-term on-the-job training
29-2091	Orthotists and prosthetists	22	26	4	18	1.68	25.31	Bachelor's degree
29-2099	Healthcare technologists and technicians, all other	36	41	5	14	0.51	14.85	Postsecondary vocational award
29-9011	Occupational health and safety specialists	67	75	8	12	1.57	31.99	Bachelor's degree
29-9012	Occupational health and safety technicians	35	41	6	17	3.15	33.99	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
29-9091	Athletic trainers	13	15	2	15	0.88	29.64	Bachelor's degree
29-9099	Healthcare practitioners and technical workers, all other	21	21	0	0	0.42	12.03	Postsecondary vocational award
31-1011	Home health aides	457	575	118	26	0.56	7.20	Short-term on-the-job training
31-1012	Nursing aides, orderlies, and attendants	1,529	1,633	104	7	1.18	7.72	Postsecondary vocational award
31-1013	Psychiatric aides	118	177	59	50	1.00	7.22	Short-term on-the-job training
31-2011	Occupational therapist assistants	11	12	1	9	0.48	14.74	Associate's degree
31-2012	Occupational therapist aides	10	11	1	10	1.27	6.92	Short-term on-the-job training
31-2021	Physical therapist assistants	26	31	5	19	0.50	17.68	Associate's degree
31-2022	Physical therapist aides	25	28	3	12	0.63	8.45	Short-term on-the-job training
31-9011	Massage therapists	97	82	-15	-15	1.05	6.90	Postsecondary vocational award
31-9091	Dental assistants	175	194	19	11	0.70	12.93	Moderate-term on-the-job training
31-9092	Medical assistants	313	382	69	22	0.80	9.64	Moderate-term on-the-job training
31-9093	Medical equipment preparers	23	25	2	9	0.46	8.23	Short-term on-the-job training
31-9094	Medical transcriptionists	58	60	2	3	0.67	12.41	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
31-9095	Pharmacy aides	98	103	5	5	1.81	9.33	Short-term on-the-job training
31-9096	Veterinary assistants and laboratory animal caretakers	48	80	32	67	0.64	8.31	Short-term on-the-job training
31-9099	Healthcare support workers, all other	86	93	7	8	0.49	10.58	Short-term on-the-job training
33-1011	First-line supervisors/managers of correctional officers	17	19	2	12	0.40	22.48	Work experience in a related field
33-1012	First-line supervisors/managers of police and detectives	82	89	7	9	1.01	19.70	Work experience in a related field
33-1021	First-line supervisors/managers of fire fighting and prevention workers	26	29	3	12	0.51	25.96	Work experience in a related field
33-1099	First-line supervisors/managers, protective service workers, all other	89	85	-4	-4	1.92	34.38	Work experience in a related field
33-2011	Fire fighters	215	232	17	8	0.86	12.62	Long-term on-the-job training
33-2021	Fire inspectors and investigators	11	12	1	9	0.83	21.00	Work experience in a related field
33-3011	Bailiffs	12	13	1	8	0.67	9.85	Moderate-term on-the-job training
33-3012	Correctional officers and jailers	461	542	81	18	1.28	13.04	Moderate-term on-the-job training
33-3021	Detectives and criminal investigators	72	83	11	15	0.78	17.06	Work experience in a related field
33-3041	Parking enforcement workers	11	12	1	9	1.02	14.84	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
33-3051	Police and sheriff's patrol officers	541	585	44	8	1.04	15.62	Long-term on-the-job training
33-9011	Animal control workers	14	15	1	7	0.95	13.80	Moderate-term on-the-job training
33-9021	Private detectives and investigators	55	65	10	18	0.88	14.32	Work experience in a related field
33-9031	Gaming surveillance officers and gaming investigators	15	17	2	13	0.62	10.42	Moderate-term on-the-job training
33-9032	Security guards	1,642	1,431	-211	-13	1.77	13.34	Short-term on-the-job training
33-9091	Crossing guards	20	19	-1	-5	0.32	10.14	Short-term on-the-job training
33-9092	Lifeguards, ski patrol, and other recreational protective service workers	46	49	3	7	0.46	10.77	Short-term on-the-job training
33-9099	Protective service workers, all other	58	62	4	7	0.79	9.79	Short-term on-the-job training
35-1011	Chefs and head cooks	93	107	14	15	0.83	9.06	Work experience in a related field
35-1012	First-line supervisors/managers of food preparation and serving workers	812	874	62	8	1.05	11.15	Work experience in a related field
35-2011	Cooks, fast food	845	886	41	5	1.64	6.84	Short-term on-the-job training
35-2012	Cooks, institution and cafeteria	597	639	42	7	1.68	7.13	Moderate-term on-the-job training
35-2013	Cooks, private household	22	30	8	36	1.27	6.62	Long-term on-the-job training
35-2014	Cooks, restaurant	627	614	-13	-2	0.80	8.54	Long-term on-the-job training



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35-2015	Cooks, short order	253	266	13	5	1.53	7.27	Short-term on-the-job training
35-2019	Cooks, all other	18	25	7	39	0.71	7.48	Moderate-term on-the-job training
35-2021	Food preparation workers	690	746	56	8	0.87	7.07	Short-term on-the-job training
35-3011	Bartenders	208	217	9	4	0.45	7.30	Short-term on-the-job training
35-3021	Combined food preparation and serving workers, including fast food	2,536	2,840	304	12	1.10	6.77	Short-term on-the-job training
35-3022	Counter attendants, cafeteria, food concession, and coffee shop	500	526	26	5	1.04	6.90	Short-term on-the-job training
35-3031	Waiters and waitresses	1,280	1,262	-18	-1	0.61	7.07	Short-term on-the-job training
35-3041	Food servers, nonrestaurant	145	161	16	11	0.88	7.28	Short-term on-the-job training
35-9011	Dining room and cafeteria attendants and bartender helpers	165	170	5	3	0.46	6.82	Short-term on-the-job training
35-9021	Dishwashers	364	361	-3	-1	0.80	7.08	Short-term on-the-job training
35-9031	Hosts and hostesses, restaurant, lounge, and coffee shop	214	208	-6	-3	0.69	7.11	Short-term on-the-job training
35-9099	Food preparation and serving related workers, all other	13	13	0	0	0.26	6.69	Short-term on-the-job training
37-1011	First-line supervisors/managers of housekeeping and janitorial workers	371	449	78	21	1.11	8.78	Work experience in a related field
37-1012	First-line supervisors/managers of landscaping, lawn service, and groundskeeping workers	182	210	28	15	1.38	13.00	Work experience in a related field
37-2011	Janitors and cleaners, except maids and housekeeping cleaners	1,668	1,599	-69	-4	0.83	9.77	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
37-2012	Maids and housekeeping cleaners	2,246	2,844	598	27	1.20	6.67	Short-term on-the-job training
37-2019	Building cleaning workers, all other	620	817	197	32	1.40	6.64	Short-term on-the-job training
37-2021	Pest control workers	160	200	40	25	1.91	10.40	Moderate-term on-the-job training
37-3011	Landscaping and groundskeeping workers	869	955	86	10	0.94	10.37	Short-term on-the-job training
37-3012	Pesticide handlers, sprayers, and applicators, vegetation	190	236	46	24	2.07	7.55	Moderate-term on-the-job training
37-3013	Tree trimmers and pruners	181	221	40	22	1.91	7.51	Short-term on-the-job training
37-3019	Grounds maintenance workers, all other	175	213	38	22	2.04	7.04	Short-term on-the-job training
39-1011	Gaming supervisors	28	33	5	18	0.68	7.14	Work experience in a related field
39-1012	Slot key persons	27	31	4	15	0.86	7.37	Postsecondary vocational award
39-1021	First-line supervisors/managers of personal service workers	238	228	-10	-4	1.10	9.33	Work experience in a related field
39-2011	Animal trainers	122	122	0	0	1.42	7.14	Moderate-term on-the-job training
39-2021	Nonfarm animal caretakers	411	382	-29	-7	1.23	7.43	Short-term on-the-job training
39-3011	Gaming dealers	12	14	2	17	0.16	8.28	Postsecondary vocational award

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39-3012	Gaming and sports book writers and runners	18	21	3	17	0.90	8.88	Short-term on-the-job training
39-3031	Ushers, lobby attendants, and ticket takers	27	27	0	0	0.29	12.18	Short-term on-the-job training
39-3091	Amusement and recreation attendants	221	225	4	2	1.02	7.09	Short-term on-the-job training
39-3099	Entertainment attendants and related workers, all other	19	17	-2	-11	0.44	8.65	Moderate-term on-the-job training
39-4021	Funeral attendants	52	61	9	17	1.76	7.98	Short-term on-the-job training
39-5011	Barbers	73	50	-23	-32	1.56	6.73	Postsecondary vocational award
39-5012	Hairdressers, hairstylists, and cosmetologists	522	435	-87	-17	1.06	6.87	Postsecondary vocational award
39-5091	Makeup artists, theatrical and performance	23	17	-6	-26	1.48	7.88	Postsecondary vocational award
39-5092	Manicurists and pedicurists	30	26	-4	-13	0.51	7.82	Postsecondary vocational award
39-5093	Shampooers	25	21	-4	-16	0.92	6.90	Short-term on-the-job training
39-5094	Skin care specialists	26	24	-2	-8	0.75	8.24	Postsecondary vocational award
39-6011	Baggage porters and bellhops	33	32	-1	-3	0.76	6.80	Short-term on-the-job training
39-6021	Tour guides and escorts	20	24	4	20	0.51	8.27	Moderate-term on-the-job training

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39-6022	Travel guides	19	27	8	42	1.28	11.39	Moderate-term on-the-job training
39-9011	Child care workers	1,575	1,935	360	23	0.97	6.71	Short-term on-the-job training
39-9021	Personal and home care aides	627	816	189	30	0.76	6.85	Short-term on-the-job training
39-9031	Fitness trainers and aerobics instructors	173	189	16	9	0.72	9.80	Postsecondary vocational award
39-9032	Recreation workers	220	236	16	7	0.72	7.80	Short-term on-the-job training
39-9041	Residential advisors	58	61	3	5	1.18	7.89	Moderate-term on-the-job training
39-9099	Personal care and service workers, all other	92	74	-18	-20	0.80	7.03	Short-term on-the-job training
41-1011	First-line supervisors/managers of retail sales workers	2,782	3,114	332	12	1.39	11.41	Work experience in a related field
41-1012	First-line supervisors/managers of non-retail sales workers	757	940	183	24	0.92	14.86	Work experience in a related field
41-2011	Cashiers, except gaming	4,837	4,915	78	2	1.53	7.36	Short-term on-the-job training
41-2012	Gaming change persons and booth cashiers	49	59	10	20	0.89	13.08	Short-term on-the-job training
41-2021	Counter and rental clerks	321	336	15	5	0.77	8.39	Short-term on-the-job training
41-2022	Parts salespersons	138	131	-7	-5	0.67	12.48	Moderate-term on-the-job training
41-2031	Retail salespersons	4,437	4,664	227	5	1.01	8.02	Short-term on-the-job training

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41-3011	Advertising sales agents	95	114	19	20	0.48	15.18	Moderate-term on-the-job training
41-3021	Insurance sales agents	592	628	36	6	0.90	10.11	Bachelor's degree
41-3031	Securities, commodities, and financial services sales agents	364	464	100	27	0.60	19.39	Bachelor's degree
41-3041	Travel agents	38	45	7	18	0.38	10.14	Postsecondary vocational award
41-3099	Sales representatives, services, all other	377	488	111	29	0.56	16.90	Moderate-term on-the-job training
41-4011	Sales representatives, wholesale and manufacturing, technical and scientific products	273	340	67	25	0.59	25.99	Moderate-term on-the-job training
41-4012	Sales representatives, wholesale and manufacturing, except technical and scientific products	823	994	171	21	0.57	23.29	Moderate-term on-the-job training
41-9011	Demonstrators and product promoters	51	64	13	25	0.46	8.64	Moderate-term on-the-job training
41-9012	Models	38	48	10	26	0.96	6.83	Moderate-term on-the-job training
41-9021	Real estate brokers	1,164	1,640	476	41	0.77	7.33	Work experience in a related field
41-9022	Real estate sales agents	1,255	1,735	480	38	0.77	7.61	Postsecondary vocational award
41-9041	Telemarketers	56	57	1	2	0.17	9.85	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
41-9091	Door-to-door sales workers, news and street vendors, and related workers	1,250	1,598	348	28	1.25	6.56	Short-term on-the-job training
41-9099	Sales and related workers, all other	204	240	36	18	0.66	6.89	Moderate-term on-the-job training
43-1011	First-line supervisors/managers of office and administrative support workers	1,305	1,372	67	5	0.96	21.99	Work experience in a related field
43-2011	Switchboard operators, including answering service	87	75	-12	-14	0.60	10.01	Short-term on-the-job training
43-2021	Telephone operators	30	22	-8	-27	1.11	12.11	Short-term on-the-job training
43-2099	Communications equipment operators, all other	11	11	0	0	1.31	22.12	Short-term on-the-job training
43-3011	Bill and account collectors	262	306	44	17	0.71	15.97	Short-term on-the-job training
43-3021	Billing and posting clerks and machine operators	375	396	21	6	0.79	16.32	Moderate-term on-the-job training
43-3031	Bookkeeping, accounting, and auditing clerks	1,739	1,982	243	14	0.88	13.96	Moderate-term on-the-job training
43-3041	Gaming cage workers	25	21	-4	-16	1.22	14.08	Short-term on-the-job training
43-3051	Payroll and timekeeping clerks	146	149	3	2	0.80	18.15	Moderate-term on-the-job training
43-3061	Procurement clerks	54	55	1	2	0.78	21.73	Short-term on-the-job training
43-3071	Tellers	678	600	-78	-12	1.25	10.42	Short-term on-the-job training
43-4011	Brokerage clerks	268	304	36	13	4.10	16.75	Moderate-term on-the-job training

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43-4021	Correspondence clerks	24	24	0	0	1.33	11.47	Short-term on-the-job training
43-4031	Court, municipal, and license clerks	69	74	5	7	0.71	10.88	Short-term on-the-job training
43-4041	Credit authorizers, checkers, and clerks	48	38	-10	-21	0.77	12.21	Short-term on-the-job training
43-4051	Customer service representatives	1,659	2,047	388	23	0.83	17.06	Moderate-term on-the-job training
43-4061	Eligibility interviewers, government programs	18	18	0	0	0.20	15.69	Moderate-term on-the-job training
43-4071	File clerks	150	100	-50	-33	0.74	7.80	Short-term on-the-job training
43-4081	Hotel, motel, and resort desk clerks	228	207	-21	-9	1.14	7.26	Short-term on-the-job training
43-4111	Interviewers, except eligibility and loan	121	134	13	11	0.55	9.96	Short-term on-the-job training
43-4121	Library assistants, clerical	37	39	2	5	0.37	9.28	Short-term on-the-job training
43-4131	Loan interviewers and clerks	135	107	-28	-21	0.61	12.24	Short-term on-the-job training
43-4141	New accounts clerks	108	73	-35	-32	1.35	13.83	Work experience in a related field
43-4151	Order clerks	72	58	-14	-19	0.32	12.50	Short-term on-the-job training
43-4161	Human resources assistants, except payroll and timekeeping	216	232	16	7	1.46	17.14	Short-term on-the-job training
43-4171	Receptionists and information clerks	830	947	117	14	0.81	12.44	Short-term on-the-job training
43-4181	Reservation and transportation ticket agents and travel clerks	25	34	9	36	0.16	14.63	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
43-4199	Information and record clerks, all other	99	83	-16	-16	0.48	15.85	Short-term on-the-job training
43-5011	Cargo and freight agents	60	74	14	23	0.82	16.44	Moderate-term on-the-job training
43-5021	Couriers and messengers	216	326	110	51	0.79	7.05	Short-term on-the-job training
43-5031	Police, fire, and ambulance dispatchers	105	121	16	15	1.22	12.23	Moderate-term on-the-job training
43-5032	Dispatchers, except police, fire, and ambulance	154	159	5	3	0.90	22.30	Moderate-term on-the-job training
43-5041	Meter readers, utilities	64	60	-4	-6	1.49	9.95	Short-term on-the-job training
43-5051	Postal service clerks	50	47	-3	-6	0.72	21.14	Short-term on-the-job training
43-5052	Postal service mail carriers	287	272	-15	-5	0.96	20.54	Short-term on-the-job training
43-5053	Postal service mail sorters, processors, and processing machine operators	53	46	-7	-13	0.30	18.61	Short-term on-the-job training
43-5061	Production, planning, and expediting clerks	292	320	28	10	1.16	26.51	Short-term on-the-job training
43-5071	Shipping, receiving, and traffic clerks	665	711	46	7	1.00	15.01	Short-term on-the-job training
43-5081	Stock clerks and order fillers	1,388	1,222	-166	-12	0.86	10.11	Short-term on-the-job training
43-5111	Weighers, measurers, checkers, and samplers, recordkeeping	108	100	-8	-7	1.56	17.61	Short-term on-the-job training
43-6011	Executive secretaries and administrative assistants	1,399	1,569	170	12	0.93	16.46	Moderate-term on-the-job training



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43-6012	Legal secretaries	273	375	102	37	0.86	13.23	Postsecondary vocational award
43-6013	Medical secretaries	371	411	40	11	0.82	10.70	Postsecondary vocational award
43-6014	Secretaries, except legal, medical, and executive	1,867	1,879	12	1	1.01	13.47	Moderate-term on-the-job training
43-9011	Computer operators	43	36	-7	-16	0.39	12.22	Moderate-term on-the-job training
43-9021	Data entry keyers	141	147	6	4	0.47	11.76	Moderate-term on-the-job training
43-9022	Word processors and typists	104	105	1	1	0.66	9.50	Moderate-term on-the-job training
43-9031	Desktop publishers	33	43	10	30	0.76	12.86	Postsecondary vocational award
43-9041	Insurance claims and policy processing clerks	102	92	-10	-10	0.46	13.84	Moderate-term on-the-job training
43-9051	Mail clerks and mail machine operators, except postal service	49	46	-3	-6	0.36	10.48	Short-term on-the-job training
43-9061	Office clerks, general	2,326	2,545	219	9	0.83	13.14	Short-term on-the-job training
43-9071	Office machine operators, except computer	18	17	-1	-6	0.22	11.00	Short-term on-the-job training
43-9081	Proofreaders and copy markers	19	23	4	21	0.95	13.62	Short-term on-the-job training

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43-9111	Statistical assistants	15	16	1	7	0.76	14.35	Moderate-term on-the-job training
43-9199	Office and administrative support workers, all other	109	106	-3	-3	0.42	9.33	Short-term on-the-job training
45-1099	Supervisors, farming, fishing, and forestry workers	125	132	7	6	2.29	18.92	Work experience in a related field
45-2021	Animal breeders	13	15	2	15	1.60	8.80	Short-term on-the-job training
45-2041	Graders and sorters, agricultural products	57	55	-2	-4	1.16	11.36	Work experience in a related field
45-2091	Agricultural equipment operators	78	93	15	19	1.27	11.80	Moderate-term on-the-job training
45-2092	Farmworkers and laborers, crop, nursery, and greenhouse	673	779	106	16	1.11	8.39	Short-term on-the-job training
45-2093	Farmworkers, farm and ranch animals	89	102	13	15	1.04	14.30	Short-term on-the-job training
45-2099	Agricultural workers, all other	27	31	4	15	1.37	10.11	Short-term on-the-job training
45-3011	Fishers and related fishing workers	79	112	33	42	0.90	6.55	Moderate-term on-the-job training
45-4011	Forest and conservation workers	24	24	0	0	1.85	13.29	Moderate-term on-the-job training
45-4021	Fallers	108	97	-11	-10	5.62	11.94	Moderate-term on-the-job training
45-4022	Logging equipment operators	159	159	0	0	4.29	15.16	Moderate-term on-the-job training

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45-4023	Log graders and scalers	43	51	8	19	2.54	17.68	Moderate-term on-the-job training
45-4029	Logging workers, all other	38	42	4	11	2.12	16.55	Moderate-term on-the-job training
47-1011	First-line supervisors/managers of construction trades and extraction workers	1,412	1,514	102	7	1.48	20.90	Work experience in a related field
47-2011	Boilermakers	23	18	-5	-22	1.29	34.31	Long-term on-the-job training
47-2021	Brickmasons and blockmasons	178	190	12	7	1.31	16.36	Long-term on-the-job training
47-2022	Stonemasons	70	80	10	14	1.40	15.76	Long-term on-the-job training
47-2031	Carpenters	1,692	1,884	192	11	1.11	14.62	Long-term on-the-job training
47-2041	Carpet installers	49	55	6	12	0.88	10.96	Moderate-term on-the-job training
47-2042	Floor layers, except carpet, wood, and hard tiles	49	54	5	10	1.28	10.93	Moderate-term on-the-job training
47-2043	Floor sanders and finishers	51	55	4	8	1.52	12.30	Moderate-term on-the-job training
47-2044	Tile and marble setters	72	85	13	18	0.99	13.14	Long-term on-the-job training
47-2051	Cement masons and concrete finishers	117	117	0	0	0.59	14.45	Moderate-term on-the-job training
47-2053	Terrazzo workers and finishers	31	34	3	10	2.18	14.21	Long-term on-the-job training

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47-2061	Construction laborers	1,463	1,538	75	5	1.13	12.88	Moderate-term on-the-job training
47-2071	Paving, surfacing, and tamping equipment operators	44	51	7	16	0.76	13.17	Moderate-term on-the-job training
47-2072	Pile-driver operators	55	58	3	5	1.89	14.12	Moderate-term on-the-job training
47-2073	Operating engineers and other construction equipment operators	472	536	64	14	1.21	20.71	Moderate-term on-the-job training
47-2081	Drywall and ceiling tile installers	83	96	13	16	0.54	12.41	Moderate-term on-the-job training
47-2082	Tapers	57	62	5	9	0.88	13.08	Moderate-term on-the-job training
47-2111	Electricians	595	571	-24	-4	0.90	17.22	Long-term on-the-job training
47-2121	Glaziers	41	41	0	0	0.80	13.90	Long-term on-the-job training
47-2131	Insulation workers, floor, ceiling, and wall	17	15	-2	-12	0.59	15.01	Moderate-term on-the-job training
47-2132	Insulation workers, mechanical	23	23	0	0	0.84	17.64	Moderate-term on-the-job training
47-2141	Painters, construction and maintenance	666	804	138	21	1.33	12.83	Moderate-term on-the-job training
47-2142	Paperhangers	30	34	4	13	1.74	11.99	Moderate-term on-the-job training

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47-2151	Pipelayers	114	131	17	15	1.14	11.60	Moderate-term on-the-job training
47-2152	Plumbers, pipefitters, and steamfitters	497	530	33	7	1.14	16.06	Long-term on-the-job training
47-2161	Plasterers and stucco masons	29	29	0	0	0.54	13.79	Long-term on-the-job training
47-2171	Reinforcing iron and rebar workers	26	22	-4	-15	0.94	22.11	Long-term on-the-job training
47-2181	Roofers	221	234	13	6	1.34	12.26	Moderate-term on-the-job training
47-2211	Sheet metal workers	299	321	22	7	1.90	13.60	Long-term on-the-job training
47-2221	Structural iron and steel workers	69	85	16	23	1.09	21.17	Long-term on-the-job training
47-3011	Helpers, brickmasons, blockmasons, stonemasons, and tile and marble setters	100	100	0	0	1.87	10.66	Short-term on-the-job training
47-3012	Helpers, carpenters	178	187	9	5	2.06	11.76	Short-term on-the-job training
47-3013	Helpers, electricians	134	107	-27	-20	1.45	11.46	Short-term on-the-job training
47-3014	Helpers, painters, paperhangers, plasterers, and stucco masons	27	30	3	11	1.18	10.49	Short-term on-the-job training
47-3015	Helpers, pipelayers, plumbers, pipefitters, and steamfitters	45	49	4	9	0.59	11.93	Short-term on-the-job training
47-3016	Helpers, roofers	32	22	-10	-31	1.53	10.96	Short-term on-the-job training
47-3019	Helpers, construction trades, all other	27	29	2	7	0.86	11.60	Short-term on-the-job training
47-4011	Construction and building inspectors	65	80	15	23	0.58	16.88	Work experience in a related field

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-4021	Elevator installers and repairers	23	21	-2	-9	1.03	23.38	Long-term on-the-job training
47-4031	Fence erectors	31	39	8	26	0.96	10.69	Moderate-term on-the-job training
47-4041	Hazardous materials removal workers	55	56	1	2	1.56	17.37	Moderate-term on-the-job training
47-4051	Highway maintenance workers	89	95	6	7	0.74	12.61	Moderate-term on-the-job training
47-4061	Rail-track laying and maintenance equipment operators	18	14	-4	-22	1.46	13.58	Moderate-term on-the-job training
47-4071	Septic tank servicers and sewer pipe cleaners	51	54	3	6	2.03	13.94	Moderate-term on-the-job training
47-4091	Segmental pavers	20	24	4	20	3.34	10.95	Moderate-term on-the-job training
47-4099	Construction and related workers, all other	23	24	1	4	0.43	17.08	Moderate-term on-the-job training
47-5012	Rotary drill operators, oil and gas	14	11	-3	-21	0.64	12.53	Moderate-term on-the-job training
47-5013	Service unit operators, oil, gas, and mining	13	17	4	31	0.44	11.15	Moderate-term on-the-job training
47-5021	Earth drillers, except oil and gas	21	24	3	14	0.89	15.90	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
47-5071	Roustabouts, oil and gas	14	17	3	21	0.29	10.68	Moderate-term on-the-job training
47-5081	Helpers, extraction workers	13	14	1	8	0.51	9.68	Short-term on-the-job training
47-5099	Extraction workers, all other	14	13	-1	-7	1.16	10.91	Moderate-term on-the-job training
49-1011	First-line supervisors/managers of mechanics, installers, and repairers	608	649	41	7	1.51	31.07	Work experience in a related field
49-2011	Computer, automated teller, and office machine repairers	72	88	16	22	0.46	10.01	Postsecondary vocational award
49-2021	Radio mechanics	16	18	2	13	1.59	14.97	Postsecondary vocational award
49-2022	Telecommunications equipment installers and repairers, except line installers	83	102	19	23	0.45	18.54	Long-term on-the-job training
49-2092	Electric motor, power tool, and related repairers	19	18	-1	-5	0.84	13.88	Postsecondary vocational award
49-2093	Electrical and electronics installers and repairers, transportation equipment	20	14	-6	-30	1.24	17.51	Postsecondary vocational award
49-2094	Electrical and electronics repairers, commercial and industrial equipment	34	39	5	15	0.49	21.58	Postsecondary vocational award
49-2095	Electrical and electronics repairers, powerhouse, substation, and relay	14	14	0	0	0.64	17.25	Postsecondary vocational award
49-2096	Electronic equipment installers and repairers, motor vehicles	19	20	1	5	1.00	12.58	Postsecondary vocational award

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-2097	Electronic home entertainment equipment installers and repairers	49	59	10	20	0.90	11.06	Postsecondary vocational award
49-2098	Security and fire alarm systems installers	35	40	5	14	0.54	13.98	Postsecondary vocational award
49-3011	Aircraft mechanics and service technicians	33	37	4	12	0.31	21.91	Postsecondary vocational award
49-3021	Automotive body and related repairers	156	179	23	15	0.93	11.74	Long-term on-the-job training
49-3022	Automotive glass installers and repairers	23	26	3	13	1.09	9.93	Long-term on-the-job training
49-3023	Automotive service technicians and mechanics	952	1,069	117	12	1.28	12.23	Postsecondary vocational award
49-3031	Bus and truck mechanics and diesel engine specialists	314	353	39	12	1.29	18.04	Postsecondary vocational award
49-3041	Farm equipment mechanics	21	26	5	24	0.66	11.63	Postsecondary vocational award
49-3042	Mobile heavy equipment mechanics, except engines	118	133	15	13	1.03	30.29	Postsecondary vocational award
49-3043	Rail car repairers	28	26	-2	-7	1.20	14.09	Long-term on-the-job training
49-3051	Motorboat mechanics	28	32	4	14	0.98	12.37	Long-term on-the-job training
49-3052	Motorcycle mechanics	26	28	2	8	0.98	10.10	Long-term on-the-job training
49-3053	Outdoor power equipment and other small engine mechanics	40	39	-1	-3	1.14	10.81	Moderate-term on-the-job training



SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-3091	Bicycle repairers	18	17	-1	-6	1.65	10.90	Moderate-term on-the-job training
49-3092	Recreational vehicle service technicians	18	19	1	6	1.20	15.73	Long-term on-the-job training
49-3093	Tire repairers and changers	109	145	36	33	1.26	11.35	Short-term on-the-job training
49-9011	Mechanical door repairers	17	20	3	18	1.01	15.84	Moderate-term on-the-job training
49-9012	Control and valve installers and repairers, except mechanical door	41	47	6	15	1.06	22.83	Moderate-term on-the-job training
49-9021	Heating, air conditioning, and refrigeration mechanics and installers	327	355	28	9	1.09	12.90	Long-term on-the-job training
49-9031	Home appliance repairers	65	74	9	14	0.91	8.46	Long-term on-the-job training
49-9041	Industrial machinery mechanics	575	672	97	17	2.40	20.59	Long-term on-the-job training
49-9042	Maintenance and repair workers, general	2,283	2,466	183	8	1.85	22.92	Moderate-term on-the-job training
49-9043	Maintenance workers, machinery	88	93	5	6	1.25	17.34	Short-term on-the-job training
49-9044	Millwrights	113	118	5	4	2.62	24.03	Long-term on-the-job training
49-9045	Refractory materials repairers, except brickmasons	12	14	2	17	1.21	8.67	Moderate-term on-the-job training
49-9051	Electrical power-line installers and repairers	141	169	28	20	1.46	18.34	Long-term on-the-job training
49-9052	Telecommunications line installers and repairers	62	78	16	26	0.39	12.30	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9061	Camera and photographic equipment repairers	19	19	0	0	1.50	10.83	Moderate-term on-the-job training
49-9062	Medical equipment repairers	38	44	6	16	0.99	14.67	Associate's degree
49-9063	Musical instrument repairers and tuners	14	16	2	14	0.97	8.29	Long-term on-the-job training
49-9064	Watch repairers	21	17	-4	-19	1.77	10.11	Long-term on-the-job training
49-9069	Precision instrument and equipment repairers, all other	18	21	3	17	0.85	14.11	Moderate-term on-the-job training
49-9091	Coin, vending, and amusement machine servicers and repairers	57	61	4	7	0.96	10.17	Moderate-term on-the-job training
49-9092	Commercial divers	51	57	6	12	2.06	20.74	Moderate-term on-the-job training
49-9093	Fabric menders, except garment	30	37	7	23	1.28	7.77	Moderate-term on-the-job training
49-9094	Locksmiths and safe repairers	55	76	21	38	1.46	8.22	Moderate-term on-the-job training
49-9095	Manufactured building and mobile home installers	26	23	-3	-12	2.09	17.23	Moderate-term on-the-job training
49-9096	Riggers	13	10	-3	-23	1.02	19.72	Short-term on-the-job training
49-9097	Signal and track switch repairers	46	47	1	2	1.69	15.24	Moderate-term on-the-job training
49-9098	Helpers--Installation, maintenance, and repair workers	372	417	45	12	2.73	14.99	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
49-9099	Installation, maintenance, and repair workers, all other	69	80	11	16	0.48	12.01	Moderate-term on-the-job training
51-1011	First-line supervisors/managers of production and operating workers	1,142	1,214	72	6	1.86	31.16	Work experience in a related field
51-2021	Coil winders, tapers, and finishers	42	35	-7	-17	1.94	13.98	Short-term on-the-job training
51-2022	Electrical and electronic equipment assemblers	122	94	-28	-23	0.65	12.94	Short-term on-the-job training
51-2023	Electromechanical equipment assemblers	48	52	4	8	0.85	11.70	Short-term on-the-job training
51-2031	Engine and other machine assemblers	74	63	-11	-15	2.04	9.92	Short-term on-the-job training
51-2041	Structural metal fabricators and fitters	107	111	4	4	1.11	16.66	Moderate-term on-the-job training
51-2091	Fiberglass laminators and fabricators	58	66	8	14	1.61	16.99	Moderate-term on-the-job training
51-2092	Team assemblers	3,272	3,347	75	2	3.21	12.41	Moderate-term on-the-job training
51-2093	Timing device assemblers, adjusters, and calibrators	46	54	8	17	4.02	12.53	Moderate-term on-the-job training
51-2099	Assemblers and fabricators, all other	139	136	-3	-2	0.50	10.84	Moderate-term on-the-job training
51-3011	Bakers	170	141	-29	-17	1.28	16.39	Long-term on-the-job training
51-3021	Butchers and meat cutters	104	92	-12	-12	0.90	12.43	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-3022	Meat, poultry, and fish cutters and trimmers	86	76	-10	-12	0.67	18.64	Short-term on-the-job training
51-3023	Slaughterers and meat packers	112	96	-16	-14	1.16	17.38	Moderate-term on-the-job training
51-3091	Food and tobacco roasting, baking, and drying machine operators and tenders	14	16	2	14	0.79	16.87	Short-term on-the-job training
51-3092	Food batchmakers	63	53	-10	-16	0.72	17.27	Short-term on-the-job training
51-3093	Food cooking machine operators and tenders	35	28	-7	-20	0.93	14.85	Short-term on-the-job training
51-4011	Computer-controlled machine tool operators, metal and plastic	293	351	58	20	2.42	13.82	Moderate-term on-the-job training
51-4012	Numerical tool and process control programmers	54	67	13	24	3.23	18.21	Long-term on-the-job training
51-4021	Extruding and drawing machine setters, operators, and tenders, metal and plastic	221	278	57	26	2.68	16.79	Moderate-term on-the-job training
51-4022	Forging machine setters, operators, and tenders, metal and plastic	86	81	-5	-6	3.10	13.81	Moderate-term on-the-job training
51-4023	Rolling machine setters, operators, and tenders, metal and plastic	116	134	18	16	3.37	21.12	Moderate-term on-the-job training
51-4031	Cutting, punching, and press machine setters, operators, and tenders, metal and plastic	485	480	-5	-1	2.20	13.33	Moderate-term on-the-job training
51-4032	Drilling and boring machine tool setters, operators, and tenders, metal and plastic	83	85	2	2	2.47	16.89	Moderate-term on-the-job training
51-4033	Grinding, lapping, polishing, and buffing machine tool setters, operators, and tenders, metal and plastic	115	129	14	12	1.36	15.17	Moderate-term on-the-job training

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51-4034	Lathe and turning machine tool setters, operators, and tenders, metal and plastic	105	104	-1	-1	1.93	13.31	Moderate-term on-the-job training
51-4035	Milling and planing machine setters, operators, and tenders, metal and plastic	57	63	6	11	2.29	14.82	Moderate-term on-the-job training
51-4041	Machinists	255	278	23	9	0.71	14.98	Long-term on-the-job training
51-4051	Metal-refining furnace operators and tenders	46	56	10	22	2.50	19.87	Moderate-term on-the-job training
51-4052	Pourers and casters, metal	16	25	9	56	1.02	20.81	Moderate-term on-the-job training
51-4061	Model makers, metal and plastic	44	66	22	50	4.44	19.20	Moderate-term on-the-job training
51-4062	Patternmakers, metal and plastic	62	88	26	42	7.56	16.92	Moderate-term on-the-job training
51-4071	Foundry mold and coremakers	24	33	9	38	1.63	15.93	Moderate-term on-the-job training
51-4072	Molding, coremaking, and casting machine setters, operators, and tenders, metal and plastic	317	365	48	15	2.45	14.56	Moderate-term on-the-job training
51-4081	Multiple machine tool setters, operators, and tenders, metal and plastic	79	99	20	25	1.01	13.41	Moderate-term on-the-job training
51-4111	Tool and die makers	94	123	29	31	1.15	18.82	Long-term on-the-job training
51-4121	Welders, cutters, solderers, and brazers	397	422	25	6	1.11	18.58	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-4122	Welding, soldering, and brazing machine setters, operators, and tenders	135	158	23	17	2.04	12.86	Moderate-term on-the-job training
51-4191	Heat treating equipment setters, operators, and tenders, metal and plastic	98	115	17	17	4.09	16.40	Moderate-term on-the-job training
51-4192	Lay-out workers, metal and plastic	27	29	2	7	2.64	12.82	Moderate-term on-the-job training
51-4193	Plating and coating machine setters, operators, and tenders, metal and plastic	63	91	28	44	1.65	15.17	Moderate-term on-the-job training
51-4194	Tool grinders, filers, and sharpeners	40	46	6	15	2.27	13.63	Moderate-term on-the-job training
51-4199	Metal workers and plastic workers, all other	45	44	-1	-2	1.11	14.89	Moderate-term on-the-job training
51-5011	Bindery workers	54	54	0	0	0.96	10.08	Short-term on-the-job training
51-5012	Bookbinders	12	14	2	17	1.47	13.09	Moderate-term on-the-job training
51-5021	Job printers	50	54	4	8	1.15	14.10	Long-term on-the-job training
51-5022	Prepress technicians and workers	38	36	-2	-5	0.63	13.85	Postsecondary vocational award
51-5023	Printing machine operators	103	122	19	18	0.56	16.51	Moderate-term on-the-job training
51-6011	Laundry and dry-cleaning workers	233	239	6	3	0.98	7.12	Moderate-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-6021	Pressers, textile, garment, and related materials	114	95	-19	-17	1.81	9.20	Short-term on-the-job training
51-6031	Sewing machine operators	187	149	-38	-20	0.96	10.25	Moderate-term on-the-job training
51-6041	Shoe and leather workers and repairers	31	26	-5	-16	1.35	8.33	Long-term on-the-job training
51-6051	Sewers, hand	87	96	9	10	1.34	8.75	Short-term on-the-job training
51-6052	Tailors, dressmakers, and custom sewers	89	99	10	11	1.04	7.72	Long-term on-the-job training
51-6061	Textile bleaching and dyeing machine operators and tenders	100	107	7	7	5.61	13.76	Moderate-term on-the-job training
51-6062	Textile cutting machine setters, operators, and tenders	45	45	0	0	2.22	15.66	Moderate-term on-the-job training
51-6063	Textile knitting and weaving machine setters, operators, and tenders	208	165	-43	-21	6.61	14.31	Long-term on-the-job training
51-6064	Textile winding, twisting, and drawing out machine setters, operators, and tenders	322	400	78	24	8.78	13.39	Moderate-term on-the-job training
51-6091	Extruding and forming machine setters, operators, and tenders, synthetic and glass fibers	331	352	21	6	21.55	16.90	Moderate-term on-the-job training
51-6092	Fabric and apparel patternmakers	18	15	-3	-17	1.82	20.38	Long-term on-the-job training
51-6093	Upholsterers	77	94	17	22	0.86	7.73	Long-term on-the-job training
51-6099	Textile, apparel, and furnishings workers, all other	47	43	-4	-9	2.23	14.50	Short-term on-the-job training
51-7011	Cabinetmakers and bench carpenters	85	77	-8	-9	0.66	10.94	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-7021	Furniture finishers	39	41	2	5	0.97	9.92	Long-term on-the-job training
51-7032	Patternmakers, wood	15	15	0	0	1.84	14.03	Long-term on-the-job training
51-7041	Sawing machine setters, operators, and tenders, wood	229	241	12	5	4.01	15.47	Moderate-term on-the-job training
51-7042	Woodworking machine setters, operators, and tenders, except sawing	119	122	3	3	1.40	14.29	Moderate-term on-the-job training
51-7099	Woodworkers, all other	11	10	-1	-9	--	--	Moderate-term on-the-job training
51-8011	Nuclear power reactor operators	40	51	11	28	6.79	29.40	Long-term on-the-job training
51-8012	Power distributors and dispatchers	19	18	-1	-5	1.88	19.25	Long-term on-the-job training
51-8013	Power plant operators	117	142	25	21	3.63	28.15	Long-term on-the-job training
51-8021	Stationary engineers and boiler operators	65	73	8	12	1.72	28.67	Long-term on-the-job training
51-8031	Water and liquid waste treatment plant and system operators	164	193	29	18	1.72	18.27	Long-term on-the-job training
51-8091	Chemical plant and system operators	277	323	46	17	6.57	24.25	Long-term on-the-job training
51-8092	Gas plant operators	74	85	11	15	5.36	25.44	Long-term on-the-job training
51-8093	Petroleum pump system operators, refinery operators, and gaugers	25	23	-2	-8	0.64	23.89	Long-term on-the-job training
51-8099	Plant and system operators, all other	84	98	14	17	6.22	16.55	Long-term on-the-job training
51-9011	Chemical equipment operators and tenders	324	318	-6	-2	6.89	23.07	Moderate-term on-the-job training




SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9012	Separating, filtering, clarifying, precipitating, and still machine setters, operators, and tenders	49	52	3	6	1.22	17.31	Moderate-term on-the-job training
51-9021	Crushing, grinding, and polishing machine setters, operators, and tenders	59	44	-15	-25	1.55	16.84	Moderate-term on-the-job training
51-9022	Grinding and polishing workers, hand	53	52	-1	-2	1.34	18.61	Moderate-term on-the-job training
51-9023	Mixing and blending machine setters, operators, and tenders	137	139	2	1	1.12	18.97	Moderate-term on-the-job training
51-9031	Cutters and trimmers, hand	62	67	5	8	2.46	13.80	Short-term on-the-job training
51-9032	Cutting and slicing machine setters, operators, and tenders	80	77	-3	-4	1.15	18.21	Moderate-term on-the-job training
51-9041	Extruding, forming, pressing, and compacting machine setters, operators, and tenders	141	143	2	1	1.85	15.64	Moderate-term on-the-job training
51-9051	Furnace, kiln, oven, drier, and kettle operators and tenders	130	122	-8	-6	5.77	12.07	Moderate-term on-the-job training
51-9061	Inspectors, testers, sorters, samplers, and weighers	643	651	8	1	1.53	16.16	Moderate-term on-the-job training
51-9071	Jewelers and precious stone and metal workers	53	59	6	11	1.09	13.07	Postsecondary vocational award
51-9081	Dental laboratory technicians	18	19	1	6	0.42	13.99	Long-term on-the-job training
51-9082	Medical appliance technicians	15	16	1	7	1.12	12.74	Long-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
51-9083	Ophthalmic laboratory technicians	29	22	-7	-24	0.96	14.58	Moderate-term on-the-job training
51-9111	Packaging and filling machine operators and tenders	278	258	-20	-7	0.87	14.46	Short-term on-the-job training
51-9121	Coating, painting, and spraying machine setters, operators, and tenders	297	274	-23	-8	3.19	12.39	Moderate-term on-the-job training
51-9122	Painters, transportation equipment	51	54	3	6	1.01	13.74	Long-term on-the-job training
51-9123	Painting, coating, and decorating workers	43	40	-3	-7	1.28	11.70	Short-term on-the-job training
51-9131	Photographic process workers	36	28	-8	-22	1.42	13.16	Moderate-term on-the-job training
51-9132	Photographic processing machine operators	75	49	-26	-35	1.48	9.45	Short-term on-the-job training
51-9141	Semiconductor processors	23	22	-1	-4	0.63	21.20	Associate's degree
51-9191	Cementing and gluing machine operators and tenders	74	82	8	11	3.59	11.92	Moderate-term on-the-job training
51-9192	Cleaning, washing, and metal pickling equipment operators and tenders	27	28	1	4	1.56	17.65	Moderate-term on-the-job training
51-9193	Cooling and freezing equipment operators and tenders	16	18	2	13	1.13	19.75	Moderate-term on-the-job training
51-9194	Etchers and engravers	43	38	-5	-12	3.07	8.77	Long-term on-the-job training
51-9195	Molders, shapers, and casters, except metal and plastic	85	82	-3	-4	2.03	14.91	Moderate-term on-the-job training

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51-9196	Paper goods machine setters, operators, and tenders	242	278	36	15	2.56	30.50	Moderate-term on-the-job training
51-9197	Tire builders	204	189	-15	-7	10.74	14.40	Moderate-term on-the-job training
51-9198	Helpers--Production workers	589	601	12	2	1.30	13.36	Short-term on-the-job training
51-9199	Production workers, all other	168	168	0	0	0.68	14.10	Moderate-term on-the-job training
53-1011	Aircraft cargo handling supervisors	14	18	4	29	1.21	19.51	Work experience in a related field
53-1021	First-line supervisors/managers of helpers, laborers, and material movers, hand	165	188	23	14	0.98	24.30	Work experience in a related field
53-1031	First-line supervisors/managers of transportation and material-moving machine and vehicle operators	248	281	33	13	1.24	29.70	Work experience in a related field
53-2011	Airline pilots, copilots, and flight engineers	13	17	4	31	0.18	24.55	Bachelor's degree
53-2012	Commercial pilots	21	28	7	33	0.61	20.86	Postsecondary vocational award
53-3011	Ambulance drivers and attendants, except emergency medical technicians	19	30	11	58	0.98	11.39	Moderate-term on-the-job training
53-3021	Bus drivers, transit and intercity	62	71	9	15	0.33	8.12	Moderate-term on-the-job training
53-3022	Bus drivers, school	527	535	8	2	1.25	8.11	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-3031	Driver/sales workers	654	768	114	17	1.20	10.95	Short-term on-the-job training
53-3032	Truck drivers, heavy and tractor-trailer	2,386	2,677	291	12	1.41	19.03	Moderate-term on-the-job training
53-3033	Truck drivers, light or delivery services	1,387	1,573	186	13	1.35	12.23	Short-term on-the-job training
53-3041	Taxi drivers and chauffeurs	127	161	34	27	0.43	7.12	Short-term on-the-job training
53-3099	Motor vehicle operators, all other	15	16	1	7	0.21	21.53	Short-term on-the-job training
53-4019	Locomotive engineers and operators	21	16	-5	-24	0.50	23.69	Moderate-term on-the-job training
53-6021	Parking lot attendants	23	24	1	4	0.19	8.96	Short-term on-the-job training
53-6031	Service station attendants	54	57	3	6	0.67	9.45	Short-term on-the-job training
53-7011	Conveyor operators and tenders	20	18	-2	-10	0.52	17.70	Short-term on-the-job training
53-7021	Crane and tower operators	32	35	3	9	0.78	20.00	Long-term on-the-job training
53-7031	Dredge operators	17	16	-1	-6	1.46	11.22	Moderate-term on-the-job training
53-7032	Excavating and loading machine and dragline operators	91	106	15	16	1.37	19.09	Moderate-term on-the-job training
53-7033	Loading machine operators, underground mining	14	19	5	36	1.18	12.04	Moderate-term on-the-job training
53-7051	Industrial truck and tractor operators	746	760	14	2	1.33	17.49	Short-term on-the-job training

SOC Code	Description	2007 Jobs	2016 Jobs	Change	% Change	2007 National LQ	2007 Median Hourly Earnings (\$)	Typical Education & Training Level
53-7061	Cleaners of vehicles and equipment	220	231	11	5	0.71	12.97	Short-term on-the-job training
53-7062	Laborers and freight, stock, and material movers, hand	2,175	2,211	36	2	1.02	14.03	Short-term on-the-job training
53-7063	Machine feeders and offbearers	259	241	-18	-7	2.19	13.60	Short-term on-the-job training
53-7064	Packers and packagers, hand	722	622	-100	-14	1.03	8.66	Short-term on-the-job training
53-7081	Refuse and recyclable material collectors	342	363	21	6	2.64	8.76	Short-term on-the-job training
53-7121	Tank car, truck, and ship loaders	12	13	1	8	0.79	16.97	Moderate-term on-the-job training
53-7199	Material moving workers, all other	24	24	0	0	0.60	14.75	Moderate-term on-the-job training
		155,089	170,169	15,080	10		15.39	

 at least 1.25 greater than \$15.39

Source: EMSI







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